

Mathamania

A new magazine proves math is cool; and a mathematician earns a prestigious award.

2

Defining document

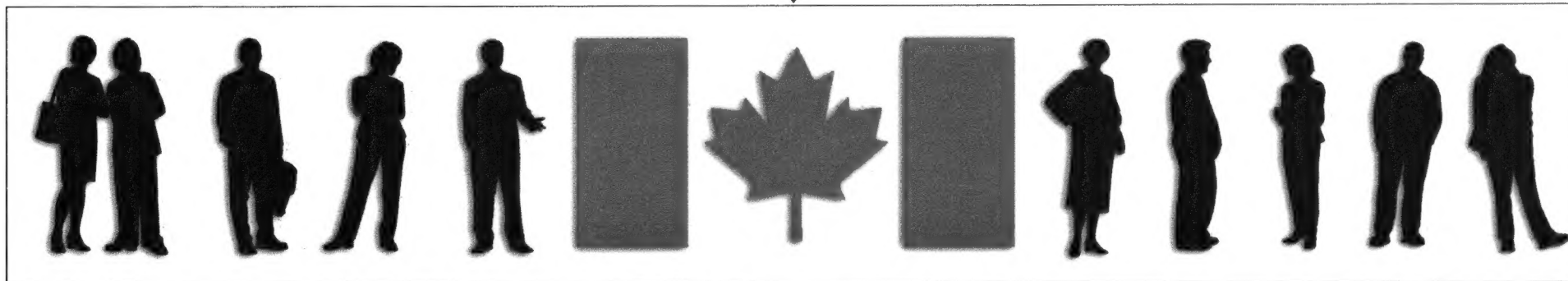
Twenty years ago Canadians expressed uncertainty about the Charter of Rights and Freedoms. Today, they put their faith in it.

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Film in Print

A U of A professor chronicles the history of Canadian film.

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UNIVERSITY OF ALBERTA

folio

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Two appointments bolster northern research

NSERC and U of A direct resources to study northern climate and culture

By Simon Kiss and Ryan Smith

Since he was 18, Dr. John England has undertaken 30 field projects in the Arctic. He has followed in the footsteps of explorers there, finding their notes, remains and artifacts. As a tribute, he poured scotch on the grave of explorer Francis Hall, who died in 1871 at Thank God Harbour, Greenland.

The North also holds a special allure for Dr. Mark Nuttall who, from his home in Aberdeen, Scotland, has been in the habit of watching TV at midnight to check the temperature in Edmonton. The recent cold snap has caught his attention, but won't deter him from coming to the University of Alberta. Currently a professor at the University of Aberdeen, Nuttall will join the U of A faculty next year as a Henry Marshall Tory Chair.

The appointment, along with the recent announcement that England had been appointed as a Natural Sciences and Engineering Research Council (NSERC) Northern Chair, firms up the U of A's position as a leader in northern studies.

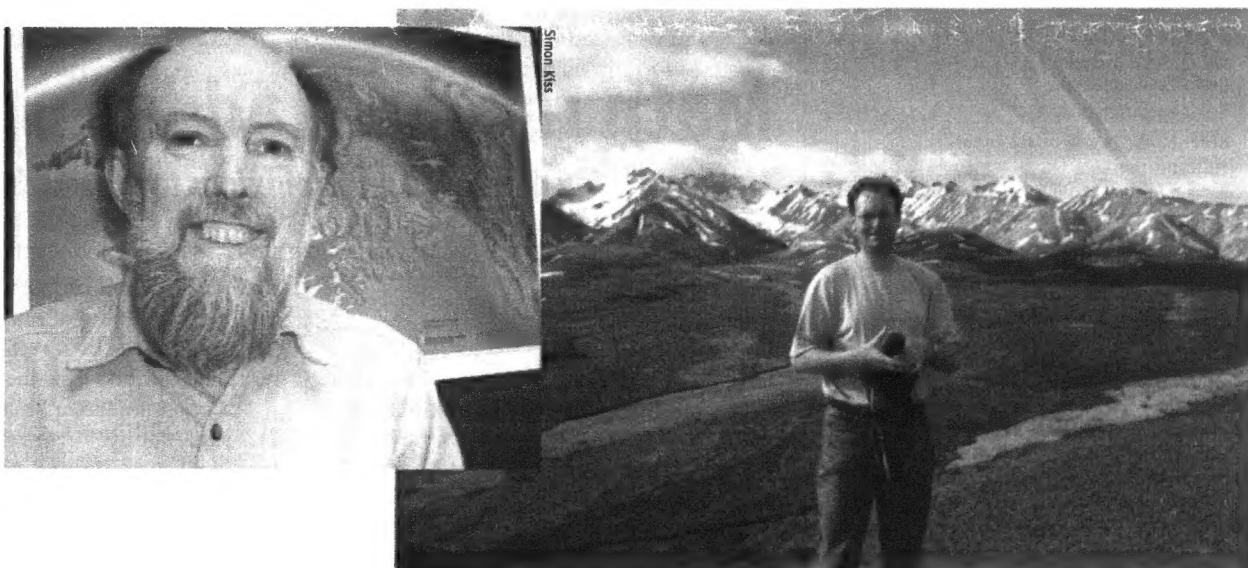
To hear England talk about the North is to hear a man who knows his life's calling. His new NSERC appointment has awarded him with \$1.75 million that recognizes his academic contributions and guarantees him even more scientific resources to explore the land he loves so dearly.

"Alberta is a leading northern university and this research chair recognizes that," said England, an earth and atmospheric sciences professor at the U of A.

England's award is part of a package to further Canadian research in northern studies. The mandate of England's chair is to study past climate change in high-latitude areas. "The Arctic is expected to undergo climate warming the earliest and to the greatest degree. And this predicted change will impact everything from permafrost to sea ice with, as yet, unclarified consequences," England said.

The problem is that Arctic weather records only go back 50 years. So England and his team examine glacial patterns, lake sediments and ice formations—any-

Dr. John England has earned an NSERC Northern Chair to continue his studies in the North. The U of A has named Dr. Mark Nuttall (far right) as a Henry Marshall Tory Chair. His research focuses on northern cultural issues.



thing to get a better understanding of how northern climates naturally change over time.

They've found interesting ways to study the past. For example, many Arctic islands are still rising from the seabed, as they do, they reveal more and more historical shorelines, which leave behind things like driftwood and whale remains.

By examining the driftwood left behind, researchers can determine where it came from and when.

"You use the driftwood on the shorelines as an indicator of past changes in ocean currents, which are driven by climatic changes," England said.

By getting a better understanding of how northern climate has changed in the past, England believes we can understand the warming that has taken place in the last century. "Global warming is a reality. The question is, how do you separate out natural variations from ones caused by human activity? It's important to understand the past to understand that correctly."

According to England, the six new research chairs awarded by NSERC are an initial step to address a significant gap in Canada's northern research program.

"Canada was lagging behind many countries in polar research including countries

that didn't have any geographic connection at all to that area," he said.

And he still feels that the federal government—and Canadian society in general—need to pay more attention to northern issues and challenges. "It's almost like we're denying who we are, while we're worrying about exactly that—who we are."

That is precisely the area Nuttall has focused his research on—the culture of indigenous people and the environment in the North. In particular, he has focused on the sustainable utilization of living marine resources in the Arctic and North Atlantic. A social anthropologist, Nuttall is the editor of the *Encyclopedia of the Arctic* and one of the lead authors of a report on Arctic Climate Impact Assessment (ACIA) for the international Arctic Council.

"North issues are generic issues that have global relevance. North issues are human issues and environmental sustainability issues. The North is an indicator of the state of health of the planet as a whole," he said.

"My plans are to develop and build multi-discipline research programs across a broad range of fields at the University of Alberta...I think the potential at the U

of A is remarkable. There are already a number of world-class researchers in this field at the U of A, and I'm looking forward to working with them."

Nuttall received his doctorate from the Scott Polar Research Institute at the University of Cambridge and joined the department of sociology and anthropology at the University of Aberdeen in 1995. Dr. Nancy Lovell, chair of the U of A department of anthropology, believes Nuttall's appointment at the U of A will add to the U of A's reputation as an institution of excellence in the field of Arctic studies.

"His ability to interact and collaborate bodes well for the expansion of northern studies across the entire university and for our ability to attract and retain outstanding faculty and students," Lovell said.

The Tory Chair is intended for "outstanding individuals who by their presence will enhance the reputation of the University of Alberta and who can provide leadership and experience for the strengthening of teaching and research in specific disciplines at the University." The chair is named after the university's first president. There is one other Tory Chair holder at the U of A, Dr. Isobel Grundy, professor of English. ■

Problem: students + math = ?

New publication for junior high students works to complete the equation

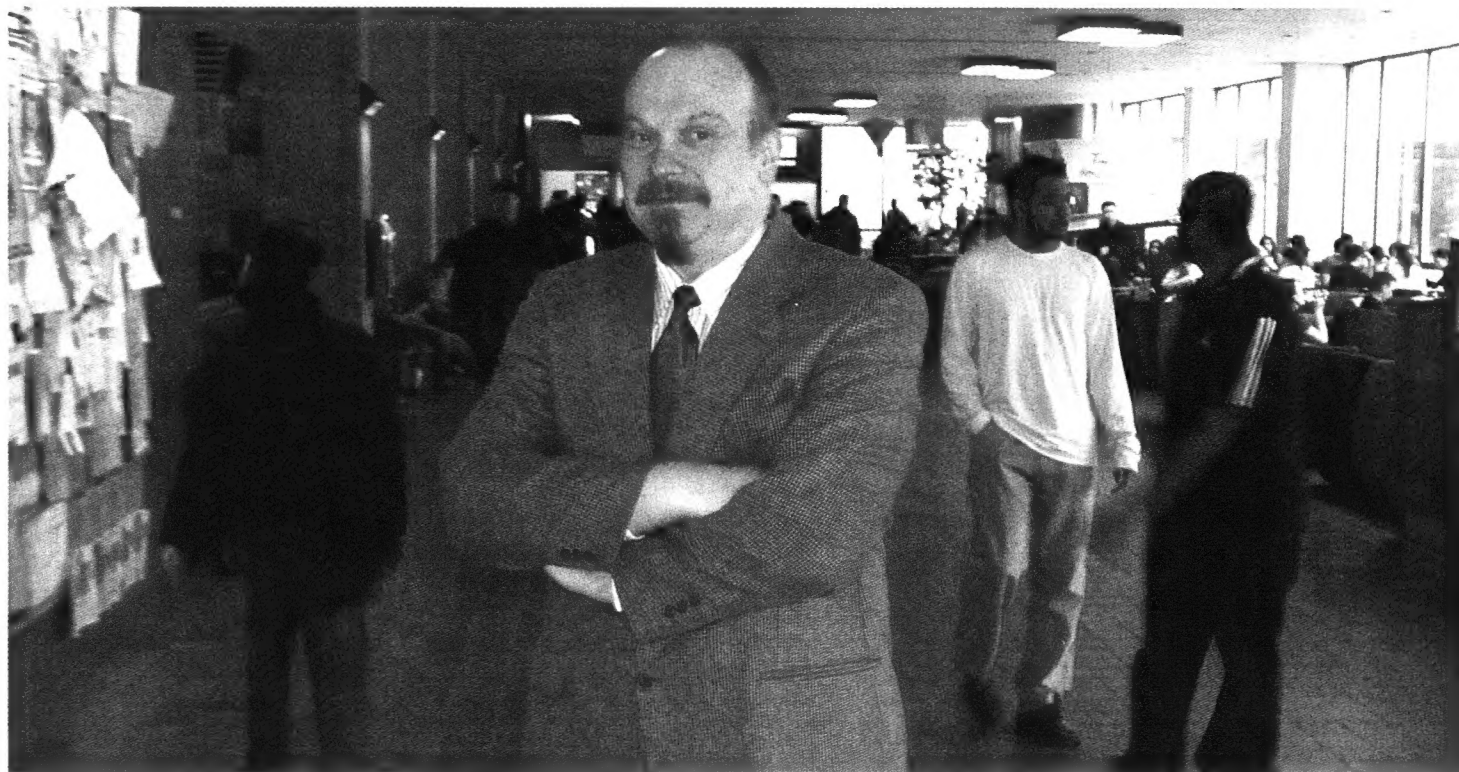
By Julie Naylor

For Dr. Wieslaw Krawcewicz, mathematics is cool. Convincing high schools students of this, however, is often a different equation.

The majority of students do not enjoy math," Krawcewicz said. "I wanted to give ordinary students an opportunity to discover mathematics in another way, one quite different from what they were learning at school."

The result was *Pi in the Sky*, a semi-annual publication that targets average junior high and high school students to promote meaningful and exciting mathematics. Launched two years ago with assistance from PIMS (Pacific Institute for the Mathematical Sciences), it is distributed free of charge to all junior high and high schools in Alberta, British Columbia, and Washington State. Readership has more than doubled since its debut in 2000, and come September, circulation will hit 8,000 copies when it expands to include Saskatchewan and possibly additional states in the northern U.S.

The glossy, colour magazine features popular articles, written mostly by academics, on topics such as the history of



Math is cool. Dr. Wieslaw Krawcewicz is spreading the word among junior high school students through a new magazine.

mathematics, interesting applications of math to real life problems, problem solving techniques, and challenging problems and solutions. It also incorporates mathematical humour using folklore, cartoons, and jokes, often with an angle of relevance to teenage life.

"The purpose of the magazine is to establish direct contact with teachers and students and to increase the involvement of younger students in mathematical activities," said Krawcewicz, the magazine's co-editor in chief. "We try to inform

them about mathematical sciences, increase their participation, promote programs, encourage girls to get involved, and to support new and innovative teaching methods to change a negative stereotype image of math." His approach seems to be working.

"This publication has certainly helped to increase interest in mathematics," said Stuart Wachowicz, director of curriculum for Edmonton Public Schools. "Our high school mathematics department heads look forward to the magazine and fre-

quently utilize its contents to enrich the math program for their students."

Loren Pascoe, a math teacher at Old Scona High School in Edmonton, agrees. "This publication is one of a kind," he said. "It is useful, entertaining, and a great resource for myself and my students."

Krawcewicz was recently awarded the PIMS Education Prize for his role as the creator and moving force behind *Pi in the Sky*. The annual award recognizes significant contributions to education in the mathematical sciences. ■

folio

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UNIVERSITY OF ALBERTA,
EDMONTON, ALBERTA T6G 2H1

LEE ELLIOTT: Director,
Office of Public Affairs

RICHARD CAIRNEY: Editor

GEOFF MCMASTER: Assistant Editor

CONTRIBUTORS:

Richard Cairney, Jon Dunbar, Jacqueline Janelle,
Simon Kiss, Geoff McMaster, Julie Naylor,
Stephen Osadetz, Dr. Saleem Qureshi

GRAPHIC DESIGN:

Penny Snell, Annie Tykwinski, Jennifer Windsor

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Inquiries,
comments and letters should be directed to
Richard Cairney, editor, 492-0439
richard.cairney@ualberta.ca

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Math research adds up to Killam award

Mathematician developed underpinnings to superstring theory

By Ryan Smith

Dr. Robert Moody added another prestigious award to a long list of distinctions marking his career as a mathematical scientist. The University of Alberta professor is one of five Canadian scholars to win a 2002 Killam prize for "outstanding career achievements." Administered by the Canada Council for the Arts, the prizes are worth \$100,000 each.

"He's the best of the best," said Dr. Nassif Ghoussoub, a professor of mathematics at the University of British Columbia and director of the Pacific Institute of Mathematical Sciences. "He is synonymous with Canadian mathematics. He is truly a treasure for the University of Alberta...I think it honours the Killam foundation to honour such a man as Bob Moody."

Moody is perhaps best known for the Kac-Moody algebras, which he discovered in the 1960s independently from, but simultaneously with, Russian mathematician Victor Kac. By the mid-1980s, the Kac-Moody algebras and their offspring, Virasoro algebras, emerged as the basic mathematical structure underlying superstring theory.

"The Kac-Moody algebras were a huge breakthrough—a huge contribution to

mathematics and physics—and that was only the beginning of his career," added Ghoussoub, one of several academics who nominated Moody for the Killam prize.

"I guess I've loved math since Grade 11," said Moody. "Up until then I was mediocre at everything, but then I found I could do math more easily than most, and I've never lost my love for it."

"Of course math is connected to the real world. It's a language and an enormously active subject....There are a lot of beautiful things about it. Unlike some other disciplines, what we know in math doesn't go out of date. If something was true 100 years ago, it's true now, and you can build on what others have done with these tools that never wear out."

About 10 years ago, at the age of 50, Moody decided to "focus on something different." He had been working for 25 years in mathematics related to symmetry, but "to keep things fresh" he decided to concentrate on quasi-crystals.

Quasi-crystals are recently discovered materials that have internal structures that no one believed could occur, Moody explained. The fact that these substances, which are not crystals, produce perfect crystal-like diffraction (atomic interference patterns under X-ray or electron radiation, in much the same way that waves create patterns as they scatter off poles standing in water) created a whole set of conundrums for crystallographers.

"We thought we understood diffraction, but there are many mysteries, and it may be that there are no definitive answers," Moody said.

Though he's been one of the leaders in

his field for more than 35 years, Moody's output is not slowing. He has been named scientific director of the newly created Banff International Research Station for Mathematical Innovation and Discovery (BIRS). When BIRS opens in March 2003, Moody expects to be there at least once a week to attend all the seminars hosted there.

"These seminars won't be five experts and 35 listeners; there'll be 40 experts—it's really going to be something special," he said. He's not sure yet exactly what pattern his travels will take, but he doesn't expect to forego his research.

Research "is what the brain turns to whenever you have free time," Moody said. "You don't sit down and solve a problem—you live with a problem. Sometimes you work through it quickly, sometimes you just get stuck."

Moody added that he's thankful for the "active and energetic environment" that he works in at the University of Alberta. "It's a great place to be. There are a lot of people here just as deserving of this award as I am, and I'm truly grateful for all the support." ■

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The cherished charter

Originally skeptical, Canadians now have more faith in the document than they do in politicians

By Simon Kiss

On March 10, 1998, Alberta's then-justice Minister John Havelock rose in the Legislature and introduced Bill 26, legislation that proposed guidelines for compensation of victims of Alberta's former Sexual Sterilization Act. What was supposed to be a good-news story for the government quickly became a nightmare.

Just minutes after the bill was introduced, outrage ensued. Opposition politicians launched a vicious attack on the bill because of a section the minister had failed to mention in his introductory remarks. Namely, for the first time ever, Alberta legislation invoked the notwithstanding clause of the Charter of Rights and Freedoms. In this case, the intent was to limit the amount of compensation sterilization victims would be eligible for.

The subsequent outcry of opposition from Albertans has rarely been seen. The government and the media were flooded by complaints from citizens appalled by what they saw as the ultimate case of a big government bullying an already victimized group of people.

Not 24 hours later, Havelock again rose in the Legislature, sheepishly admitting that the government had made a mistake. The bill would not proceed.

The case is noteworthy primarily because it highlights the strong attachment that Albertans and Canadians have to the Charter of Rights and Freedoms. Although there is a notwithstanding clause in the charter, the Alberta experience shows that politicians use that option at their peril.

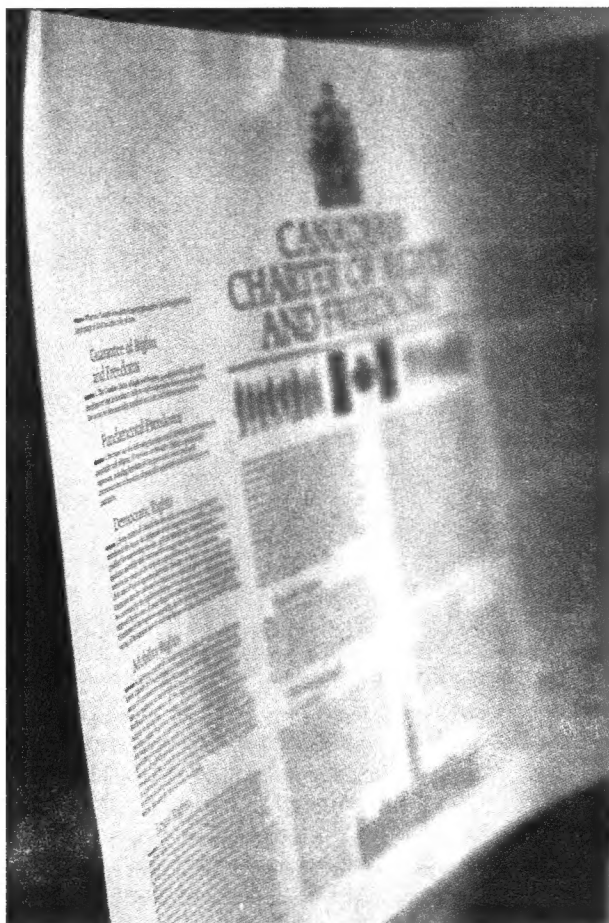
The notwithstanding clause has been used twice outside of Quebec, where the Constitution is viewed with a certain degree of skepticism because it was enacted without that province's consent.

But it didn't take long for most Canadians to embrace the charter. It, along with the rest of the Constitutional package negotiated by former prime minister Pierre Trudeau and the premiers, turned 20 years old this week, on April 17. The document has come to define the country in many ways.

"What's astounding is how quickly Canadians adopted such a fundamental shift in the idea of the country," University of Alberta history professor David Hall said of the charter's impact. "It was very controversial when it was debated, but once it was adopted that all died down. I think the overwhelming majority of Canadians support it. I think a lot of younger Canadians

"Canadians are deeply attached to the charter, and see the judicial system as a better defender of individual rights than the Parliament and legislatures perhaps because they stand for higher principles, such as the rule of law, justice, and fairness."

— Linda Trimble



Canadians have come to embrace the Charter of Rights & Freedoms

can't even imagine life without it."

"Canadians certainly did take to it," said Peter Meekison, a former University of Alberta Political Science professor who played a significant role in the negotiations that resulted in the charter as deputy minister for Alberta's Department of Intergovernmental Affairs.

"Where you find a clue to that is in the debate over Meech Lake between 1987 and 1990. Much of the concern over a distinct society clause was over its effects on the charter. People were already concerned about possible effects on it."

Public opinion data, cases like Bill 26 and the Meech Lake controversy support Hall's assessment. A recent survey by Ipsos-Reid suggested that 75 per cent of Canadians believe their rights are better protected because of the charter. In addition, the same poll found that 70 per cent of Canadians prefer that judges and courts protect their rights, rather than elected politicians.

So what's the secret to the charter's success?

A major reason, cited by many experts, is that Canadians possess a certain amount of cynicism towards elected politicians and governments and take comfort in the presence of the charter.

"I think there is a degree of cynicism towards governments and Canadians really do have a high regard for courts and judges," said Meekison.

University of Alberta political scientist Linda Trimble agrees.

"Canadians are deeply attached to the charter, and see the judicial system as a bet-

ter defender of individual rights than the Parliament and legislatures perhaps because they stand for higher principles, such as the rule of law, justice, and fairness."

Another reason for the charter's popularity is its accessibility and universality. Everybody benefits from it and everybody has lost from it.

Meekison notes that it's not possible to label any group of Canadians as "winners" under the charter, be they liberals, socialists, conservatives or feminists.

"That's something that will need to be examined over a long term. It's interesting but I don't think you could make that kind of a judgement."

Court rulings based on the charter have benefited causes and people from both sides of the political spectrum. Unions, for example, have never been able to convince the courts that the charter protects the right to strike or collective bargaining. But the ruling against the Alberta

government in the Delwyn Vriend case forbade discrimination based on sexual orientation—protection that was implied but not specifically spelled out in the charter.

And in a further example, the National Citizens' Coalition, a non-profit organization with the stated goal of promoting "more freedom through less government" previously headed by Canadian Alliance leader Stephen Harper, has also had its successes. That organization has convinced the Supreme Court on several occasions to knock down third-party election spending laws. Advocates of the laws say they prevent elections from being swayed by expensive ad campaigns. Opponents of the laws, like the NCC, say such legislation restricts freedom of speech. So far, the Supreme Court of Canada has agreed with the NCC.

"The fact that the charter exists gives us the opportunity to challenge what we see as a bad law," said Gerry Nichols, vice president of the NCC. He noted that the first charter challenge his organization launched was against a third-party spending law passed unanimously by the House of Commons in 1984. "It was much more effective for us to go to the courts and get the law struck down than it would have been to lobby all those politicians," he said. "It allows citizens access to the courts to go around politicians to achieve the kinds of changes they feel need to happen. Before the charter came along, all we could really do was take out advertisements and try to convince the public to lobby politicians."

Of course, the charter is not without its critics. Some of the most scathing attacks

have been against so-called 'judicial activism' in which unelected judges are accused of going beyond the traditional role of interpreting the Constitution to actually making new laws.

The Vriend case has been a typical example cited by opponents of the charter. Sexual orientation was explicitly left out of the charter as a basis for discrimination. When the Supreme Court "read in" sexual orientation, many observers were outraged, claiming that judges had fundamentally changed the law, something that should have been done through elected legislators.

University of Alberta law professor Gerald Gall disagrees with those arguments.

"We have the same debate now that we had in 1981 about judges usurping the role of elected politicians. I deny that. Even judges doing nothing is activism," he said. "The rate of success for those people challenging laws under the charter has not been as high as one might think."

Gall adds that it's important to mark the anniversary of the charter. "This is part of the education that we live under a Constitution with an entrenched charter of Rights," said Gall.

"And it also gives us cause to look ahead. When you do look ahead, you realize that the equality provisions in Section 15 of the charter are still in their nascent form. There's still some evolution to go." ■

U of A hosts symposium on human rights, the charter and a global context

In order to mark the 20th anniversary of the Canadian Charter of Rights and Freedoms, the John Humphrey Centre for Human Rights will be holding a symposium human rights and global security April 25 - 26.

Among the speakers at the symposium are president of the International Centre for Human Rights and Democratic Development Warren Allmand, Canadian anti-globalization activist Jaggi Singh, Madame Justice Sheila Greckol, Edmonton Police Chief Bob Wasylyshen and Professor Claude Couture of the Faculté St. Jean.

"We started planning this conference on September 12th and there was a lot of talk then that human rights and security were at odds. We wanted to put forward an agenda that shows that isn't the case," said MacPherson, a post-doctoral fellow in the U of A department of secondary education and a member of the John Humphrey Centre's board of directors.

Registration for the conference begins at 6:30 p.m. April 25 at the Telus Centre for Professional Development. The conference runs all day April 26. For more information go to <http://www.johnhumphreycentre.org>.

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Dentistry volunteers provide sweet relief

Open Wide program served almost 1,000 patients

By Jon Dunbar

A toothache is bad enough. But if you can't afford to see a dentist, each jolt of pain seems to add insult to injury. On April 6, the University of Alberta provided plenty of relief for people who might not otherwise have received help.

Nearly 1,000 patients streamed into the Dentistry-Pharmacy Building from 7 a.m. until 4 p.m., as about 350 volunteers provided free dental care as part of the Faculty of Medicine and Dentistry's eleventh annual Open Wide program.

"Most of these people can barely afford basic pain relief," said organizer Dr. Kent Gibb. "The concept of preventive dentistry—they just don't have the money for that."

During the course of the day, the volunteers took 391 X-rays, provided 377 cleanings, performed 432 fillings, and pulled 102 teeth.

Using the suggested dental fees as a guideline, Gibb estimates the volunteers provided approximately \$65,000 worth of dental services.

Volunteer Miranda Richardson, a third-year dental student, punched in at 8 a.m., and she was busy until 4 p.m. She said her own dentist provides a similar service to uninsured or low-income patients.

"I think there's a lot of this (free service) done quietly. As a dentist, I would have people in and sometimes who would tell me they have problems, and I would find a way to deal with it—cheaply, or at no cost."

The service helps patients, of course, but it also teaches students a valuable lesson in professional conduct. Health care practice isn't simply about money, he said.

"We have a responsibility," he said. "You work hard, you do good things for people, and you just have to feel good after doing this."

"I think there's a lot of this (free service) done quietly. As a dentist, I would have people in and sometimes who would tell me they have problems, and I would find a way to deal with it—cheaply, or at no cost."

—Dr. Kent Gibb

The faculty started the program to help people who couldn't afford dental services. The first year of the Open Wide program was run on a first-come-first-served basis, and patients lined up outside for blocks. They've since gone through the Capital Health Authority clinics for bookings.

"We try to select people who are working poor," Gibb said. "We'd rather not treat people who have insurance so that we can see more marginal people to get in."

Gibb and his 350-strong volunteer force faced "many, many immigrants," including several who didn't speak English. Throughout the day, the intercom challenged them with requests for interpreters of Mandarin, Ukrainian, or other languages.

This year's Open Wide volunteers included 120 dental students, 80 dental hygiene students, 53 NAIT dental assistant students, and miscellaneous volunteers. They were joined by 30 medical students

who administered blood pressure and pulse tests. Dean of Medicine Dr. Lorne Tyrrell and Dr. Wayne Raborn, associate dean and chair of the Department of Dentistry, pitched in for 90 pizzas. During the day, volunteers went through 600 doughnuts, contributed by Dr. Randy Crowell and the Affinity Dental Group.

Doughnuts for dentists? Isn't that setting a bad example? Gibb doesn't think so. "If you brush your teeth after, you're fine." ■



Third-year dentistry student Miranda Richardson and second-year dentistry student Melissa Wong provided treatment to five-year-old patient, Cody.

Five researchers reap \$1 million from Ingenuity fund

Support aids variety of research fields

By Ryan Smith

Most everyone knows about the San Andreas Fault and the threat of "the big one" sinking Southern California into the sea, but what do we know about the risk of earthquakes in Western Canada, particularly around Vancouver and Victoria, B.C.? A University of Alberta physics professor has just received \$213,000 from the Alberta Ingenuity Fund to look into this question—deep into it.

Dr. Martyn Unsworth's latest project involves using low frequency radio waves to probe the Earth's crust and the mantle beneath it. High-resolution, three-dimensional images generated by these techniques will help researchers understand earthquake dynamics and the faults that cause them.

"I don't say we'll be able to predict earthquakes—they said they would be able to do that in Japan, and then the Kobe



Dr. Martyn Unsworth is one of five U of A researchers to share in \$1 million of funding from the Alberta Ingenuity Fund

earthquake in 1995 resulted from a fault they didn't think was a hazard. But we can image structures under the earth's surface that give us clues as to whether or not a region is susceptible to earthquakes and

how big and how often they might happen," Unsworth said.

The British Columbian coast is a part of the infamous "Ring of Fire," a circle around the Pacific Ocean. The areas on or near the circumference of this "ring" are the boundaries of the earth's tectonic plates—and are particularly susceptible to earthquakes and volcanoes.

"We'll be looking at the whole Canadian Cordillera, which extends into Alberta, but we'll focus particularly on the large plate just off the coast of the Pacific Northwest that is being driven under the continental plate...We know there have been smaller earthquakes in this area, but our historical records of this don't go back very far. There is scientific evidence that there was a large earthquake in 1700, and this has been confirmed by records of a major tsunami in Japan," Unsworth said.

Unsworth is one of five researchers to receive \$1 million in support today from the Alberta Ingenuity Fund, the trade name of the Alberta Heritage Foundation for Science and Engineering Research.

Dr. Norman Beaulieu received funding for wireless communications research, Dr. Dan Kwok for work in building molecular devices, Dr. Subir Bhattacharjee for studies of the interaction among small particles in fluids such as oil and Dr. Tony Yeung for studies of the dividing surface between incompatible materials such as oil and water.

The funds are to help these newly recruited researchers establish labs on campus and purchase equipment and supplies.

"There is a perception out there, particularly in the U.S., that there are no funds to be had for young researchers in Canada, and that's simply not the case, particularly in Alberta." ■

Student wins national Japanese speech contest

Cartoon character helps in international competition

By Ryan Smith

Doraemon, a Japanese cartoon character known for his ability to pull virtually anything out of his pouch, helped a University of Alberta student win a free trip to Japan on the weekend.

Jit Chin Woo, a 20-year-old international student from Malaysia, won the beginner's division at the 13th Canadian National Japanese Speech Contest held in Toronto. Then, out of the four division winners in the contest—beginner, intermediate, advanced and open—Woo was

named the overall grand prize winner for being the best speaker and presenter relative to her division.

"It is extremely rare for someone from the beginner level to win the grand prize," said Dr. Kaori Kabata, a professor in the Department of East Asian Studies at the U of A. "Nobody I've talked to can remember that ever happening before."

Kabata organized the Alberta branch of the competition in early March, which Woo won to qualify for the national con-

test. "I know she worked very hard, and it showed in her presentation. The pronunciation and grammar are just a part of it; the judges also look for presentation skills, and she is a real performer."

Woo said she enjoys the Japanese culture. As a young girl, she would read Mandarin translations of Doraemon comic books. For her presentation, Woo sang a part of the Doraemon theme song and acted out an imaginary dinner date between herself and the cuddly cartoon character.

Woo's grand prize win includes free round-trip air fare to Japan and a free week of travel on the Japanese rail system. Already fluent in four languages—Malay, Mandarin, Cantonese and English—Woo started to study Japanese formally for the first time in September 2001. A linguistics major, Woo followed her older sister's path from Malaysia to the U of A.

"I came because my sister's here, and it's a really good school," she said. "So far everything's gone really well." ■

The cancer spreads

When a resolution to the Palestinian question is pressing, it appears least likely

By Professor Saleem Qureshi

April 16, 2002 – The Middle East is a mess. There has been a hardening of feelings on both sides. There is more mutual hatred and loathing between Israelis and Palestinians now than perhaps at any time in the past.

The battle between the Palestinians and Israelis, such as it is, is absolutely unequal. On one side is the Israeli defence force, one of the most powerful fighting machines in the world, buttressed by an annual military subsidy of about \$2 billion (U.S.) plus the most sophisticated weapons of massive destruction. On the other side is a Palestinian militia equipped with nothing more than Kalashnikov rifles. Israel can rub and has rubbed the Palestinian nose in the dirt, confining and humiliating their leader and destroying the ministries of the Palestinian Authority, leaving it with little ability to govern.

Public opinion in the Middle East, much of the Muslim world and in Europe has become very critical of Israeli policies as can be seen from the large-scale public demonstrations and the threats uttered by the European community to impose sanctions on Israel. Public opinion in the U.S. remains largely pro-Israel, and the U.S. remains the protector of Israel and the main promoter of its cause. The Palestinians know that they can never win militarily against Israel, and their cause has little sympathy in the American public opinion. Their suicide bombers, therefore, see themselves as the martyrs of the Palestinian cause, which appears totally hopeless to them, with no decent way out. The Israelis, consequently, can never achieve security, nothing to say of absolute

security. Not only is there unbridgeable antipathy and contempt between Israeli Prime Minister Ariel Sharon and Palestine Liberation Organization leader Yasser Arafat, the Palestinian street and the Israeli street are almost totally antagonistic to each other.

The cessation of hostilities and terrorism on which Israel and America insist as a precondition for negotiations is now beyond the power of any leader to achieve. Sharon's tanks and Arafat's pleadings have gone nowhere, only that Israeli onslaught and American support for it has made America the enemy of the Arabs: America has no credibility left anywhere in the Middle East including countries that tow the American line.

Is there any possible way to stop this bloodletting between the Israelis and Palestinians? A realistic answer would be that there is no such thing as absolute peace among living beings. However, a drastic reduction is likely if the main causes of violence are removed. And the most obvious and universally recognized cause is the Palestinian dispossession and deprivation and the daily humiliation and degradation inflicted on them by the Israelis.

An assumption that an agreement could be achieved based on compromises on both sides is an illusion. Israel controls everything and Palestinians control almost nothing. Therefore, Israel will have to give and the Palestinians will take. Insistence upon negotiations as a prelude to an agreement is seen by Palestinians as a way to keep them involved in an exercise of futility as can be seen by the endless negotiations under the Oslo process.

Starting in 1948 and with the first Arab-Israeli war, it was an Arab-Israeli conflict and remained so until former Egyptian president Anwar Sadat made peace with Israel. Thereafter, the issue shrank to its Israeli-Palestinian dimension. With the conclusion of a peace treaty between Jordan and Israel there seemed to be a real possibility of peace breaking out



Suspected Palestinian terrorists have been rounded up and jailed at a school in the Tulkarm refugee camp.

between Israel and its Arab neighbours. Unfortunately in the final settlement discussions between former Israeli prime minister Ehud Barak and Arafat under the pro-Israel supervision of Bill Clinton, what Israel was willing to concede, calling it the most generous offer ever made by an Israeli prime minister, was seen by Palestinians as reducing them to Bantustans, essentially municipal governments, not a sovereign Palestine. This failure of the peace negotiations has brought the conflict full circle from Palestinian-Israeli again to Arab-Israeli. Everywhere in the Middle East there have been large-scale demonstrations against Israel. Not only that, but large-scale anti-Israel demonstrations have taken place in several major European capitals. The automatic support for all Israeli policies by the Jews of Europe has led to violence against Jews there, increasing antipathy between Jews and Arabs globally.

Negotiations leading to peace will go nowhere. What is needed is to provide the Palestinians a state of their own where they could live peaceful, dignified and productive lives. This alone has the potential of reducing violence and of achieving a

lasting peace. This will need to be done under the auspices of the United Nations and its Security Council resolutions 242 and 338 of 1967 and 1973, which have been recognized and upheld by the Arabs, by Europe, by America and even by Israel. The route to peace this time between Israel and Palestine will likely have to be the one that was followed when Egypt made peace

with Israel. An agreement on the final shape will be necessary before negotiations on its implementation are undertaken. That is how Egypt and Israel made peace, and

that seems to be the only route to peace between Israel and Palestinians. The final shape of Israeli-Palestinian settlement is already provided by the U.N. resolutions 242 and 338. There is no other basis for a settlement between the Israelis and the Palestinians other than the U.N. resolutions, and search for a formula that will give the Palestinians less than 22 per cent of Mandate Palestine as laid down in U.N. resolutions will only prolong the suffering of both the people. ■

(Dr. Saleem Qureshi joined the University of Alberta in 1963. He has served in many capacities over the years, including associate dean of Arts, chair of East Asian Languages and Literature, and chair of the Department of Political Science. He is presently teaching as a professor emeritus in the Department of Political Science. Professor Qureshi teaches courses in Islamic Politics, Politics of the Middle East and South Asia, and Political Development. He has many publications in Islamic Fundamentalism and contemporary Islamic Movements.)

Enrolment increases expected to slow down

Faculty and staff invited to budget information sessions

By Terese Brasen

Full-time enrolment at the University of Alberta grew from 28,971 in 1995-96 to 32,246 this year, outpacing U of A Strategic Business Plan predictions by more than 900 students. While enrolment will continue to grow in 2003 and 2004, it won't continue to climb at that accelerated pace.

"The main vehicle for increasing undergraduate enrolment is the Access program," said Dr. Doug Owrarn, provost and vice-president (academic), referring to the provincial government Access Fund, recently suspended for two to three years. "Without Access grants, our ability to increase undergraduate enrolment is very limited. In effect, we are not going to grow very much."

The Access Fund was an Alberta Learning strategy meant to increase access to post-secondary institutions. When enrolment expanded in high-priority areas or subjects, Access funding would help universities and colleges cope with the costs of serving additional students.

Following Sept. 11, the provincial government adjusted its budget. One of those adjustments was the temporary suspension of the Access Fund.

The March 19 provincial budget brought a three-per-cent increase in the university's base operating grant. However, the university still faces a structural deficit, with operating costs exceeding the funding it receives through government grants and tuition.

In January, administrative units were asked to scale back their operating budgets by six per cent over four years or 1.5 per cent a year. Faculties were asked to scale back by 4.4 per cent over four years. "The faculties will be reporting back to me on how they intend to make those cuts," said Owrarn. "My office will then be assessing how well those cuts mesh with our strategic plan."

With a scaled-back operation, faculties will continue to grow and hire new faculty, but at a slower pace. "We just finished

hiring 20 new people who will join us this summer," said Dr. Harvey Krahn, acting dean of Arts. "We would have filled probably 50 or 60 positions over the next four years because we are in a faculty of 375. With these cutbacks, we will probably be filling only 30 or 40 over the next four years."

As faculties and units scale back, the Funding Solutions Task Force (<http://www.ualberta.ca/funding>) will look for creative ways to find an additional \$3.34 million in savings in the next four years. The Task Force is looking for new revenue sources and new ways of doing business. It will present its recommendations to the Board of Governors in September 2002.

University faculty and staff have been invited to attend information sessions on the U of A's budget. Hosted by Acting Vice President (Finance and Administration) Al O'Brien and Director of Resource Planning Philip Stack, the hour-long sessions run

April 23 from 2 – 3 p.m. and April 24 from 9 – 10 a.m. at the council chambers in University Hall. Those interested in attending are asked to RSVP at linda.smith@ualberta.ca or to call 492-5629 for more information. ■

folio letters
to the editor

Folio welcomes letters to the editor. Send your thoughts and opinions via e-mail to richard.cairney@ualberta.ca, fax at 492-2997, or by mail to Folio, Office of Public Affairs, 6th floor General Services Building, Edmonton, Alberta T6G 2H1. Letters may be edited for grammar, style, accuracy and length.

U of A lands \$3 million for health research

AHFMR funds will provide support for five years

By Geoff McMaster

Emphysema patients may soon breathe easier if a new ventilating mask being tested by a U of A researcher proves successful.

"If it proves to be beneficial, it will have a huge impact," said Dr. Donald Sin, one of five researchers at the U of A to receive about \$3 million in funding from the Alberta Heritage Fund for Medical Research (AHFMR).

A total of nine grants totaling \$5 million were awarded to researchers at the Universities of Alberta and Calgary, including salary support for up to five years. Sin will receive about \$180,000 from AHFMR over three years and another \$290,000 from the Canadian Institutes for Health Research.

The breathing mask, called non-invasive positive airway ventilation, has been used for years in hospitals for "patients at death's door," said Sin. However, the technology has now improved to the point where it is "portable, affordable and tolerable."

Developed by a pulmonary scientist in Australia, it could be marketed by a company called VitalAire after Sin tests it on a pool of about 50 or 60 patients over three years, to see if it performs in the home environment. "Theoretically, it makes perfect sense, but whether it will translate into real patient differences, we don't know," said Sin.

Emphysema, or chronic obstructive pulmonary disease, afflicts about one per cent of the population, says Sin, but that figure jumps to four or five per cent in populations over the age of 65. According to the World Health Organization, emphysema will soon be the third-leading cause of death behind heart failure and strokes. It is now, depending on how you crunch the numbers, says Sin, the second or third cause of hospitalization in Canada.

"Because smoking (the primary cause of emphysema) was so prevalent during the '60s and '70s, and it takes 20 to 30 years to manifest itself, we haven't seen the peak yet."

Emphysema is a condition in which the lungs' alveoli are so damaged they are unable to take in enough oxygen or expel enough carbon dioxide. The ventilator Sin



Respiratory therapist Doreen Kelsey of the Aberheart Centre demonstrates the ventilating mask designed for patients suffering from emphysema. Dr. Donald Sin, left, is testing the device.

is testing works like a reverse vacuum, blowing air into the lungs of patients while they are sleeping and have no conscious control of breathing.

Without such assistance, patients will wake up exhausted. "You're starting behind the 8-ball, so to speak," said Sin. "If you help them breathe during the night so they feel better in the morning, then the rest of the day will be smoother."

Dr. Johanne Paradis, a professor of lin-

guistics who is studying the way children with language impairments learn a second language, will also receive a health population grant from AHFMR.

The commonly held view is that such children cannot or should not learn a second language. But Dr. Paradis argues there is no research to either support or refute that claim.

"This is of great concern to many Canadian parents who want their children to go to school in a language other than English, for example, French immersion."

Paradis is also investigating the differences between the grammatical errors of children beginning to learn a second lan-

guage and the errors of those who have language impairments. Her aim is to draw a clear distinction between second language learning children who have learning impairments and those who don't.

Also receiving AHFMR grants are Dr. Cynthia Jardine of the Department of Human Ecology, who is working on communication of health risks between health officials and the public during times of disaster; Dr. Finlay McAlister in Medicine, who is investigating ways to improve treatment outcomes; and Dr. James Smythe in Economics, studying equity in Canadian health care finance. ■

Three "exemplary" technicians share the spotlight

Expertise essential for researchers, students

By Ryan Smith

Glen Bigam, Barry Irving and Ron Koss have worked a combined total of 86 years at the University of Alberta. Recently, the three laboratory technicians were named co-recipients of the Nathaniel Rutter Outstanding Technician Award presented by the U of A chapter of the Society of Sigma Xi.

Established in 1997, the award honours U of A technicians for proficiency, knowledge, technical skills, quality of work, innovation, initiative, dedication and rapport with students and staff.

Bigam has been a technician with the Department of Chemistry for 40 years, working mainly in the field of Nuclear Magnetic Resonance (NMR) research. Irving has served in a number of positions in the Department of Agricultural, Food and Nutritional Science for the past 19 years

and is currently the manager of the U of A's range land and wildlife research unit. Koss has served in the Department of

Biological Sciences, offering teaching and research support in the field of marine invertebrate research for the past 27 years.

"All three of the honorees have made incredible contributions to teaching and research at the University of Alberta and are a special and exemplary group of people," said Dr. John Spence, chair of the Department of Renewable Resources and president of the U of A chapter of Sigma Xi.

Bigam, Irving and Koss all said they were thrilled to receive the award, and all tried to deflect the praise by giving credit to their colleagues.

"After 40 years, I'm still very excited about what I do," Bigam said. "I've watched the field (of NMR research) develop from its infancy to become one of

the most powerful analytical techniques in chemistry."

Working at the U of A is exciting, he

said. "A couple of times in my career I've been able to work with the first instrument of its type in the world, and in the last couple of years we've been able to get newer and better equipment. Our capabilities have suddenly expanded, and we can solve all kinds of problems with ease that used to be very difficult. I'm 63 but I want to work past 65 because I'm having such a good time, and I don't want to lose the opportunity to work with all these new toys," Bigam added.

In his letter to nominate Irving for the Rutter award, Dr. John Kennelly, chair of the Department of Agricultural, Food and Nutritional Science, praised Irving for, among other things, his success in developing "environ-

mentally sound, sustainable and profitable grazing systems" at the U of A's ranch research stations in Ministik and Kinsella.

"I love the diversity of my job," said Irving, who is currently working toward his PhD in range management. "It involves blue collar, physical work when I work with the animals, but it also has the research, record keeping and book keeping, which I enjoy."

Ron Koss' nomination for the award included letters of support from 16 of his colleagues in the department. He has co-authored 30 papers and been acknowledged on 150 others.

"I've always been interested in biology. Growing up as a farm boy in rural Alberta there was always an interest in land, livestock, bugs, birds, water and trees. I've been for-

tunate to do what I love to do in my career, and I'm glad that some people think I've been useful." ■

"I've always been interested in biology. Growing up as a farm boy in rural Alberta there was always an interest in land, live stock, bugs, birds, water and trees. I've been fortunate to do what I love to do in my career, and I'm glad that some people think I've been useful."

—Ron Koss

"Our capabilities have suddenly expanded, and we can solve all kinds of problems with ease that used to be very difficult. I'm 63 but I want to work past 65 because I'm having such a good time, and I don't want to lose the opportunity to work with all these new toys."

—Glen Bigam

Arsenic and old waste

Research leads to surprising insights about toxin

By Stephen Osadetz

Dr. Chris Le is looking at environmental contamination from a fresh perspective—inside the body. With a three-year, \$375,000 (US) grant from the American National Institutes of Health (NIH), the professor of public health sciences and his collaborator, Dr. Michael Weinfeld of the Cross Cancer Institute, are using DNA damage to measure exposure to environmental contamination. They are also interested in how cancer-causing agents such as arsenic accumulate and metabolize in the body.

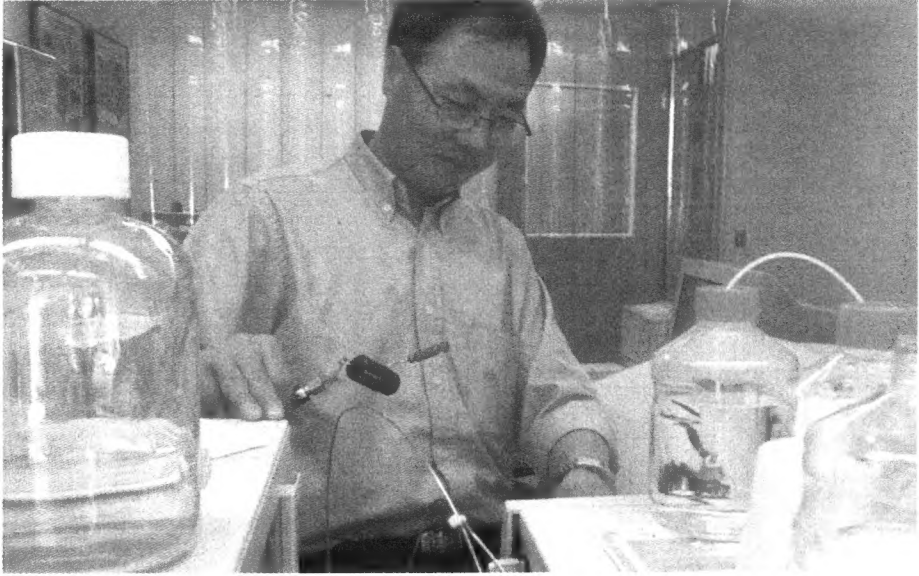
"We often measure levels of environmental contamination," Le said. "But it's a long way from there to the body. ...If we can measure this so-called internal dose, it would be a lot more meaningful, because it takes a global account of what's happening in the body."

The importance of this research has been foregrounded by Le's work, much of it sponsored by the Natural Sciences and Engineering Research Council of Canada and American Water Works Association Research Foundation, on the determination, metabolism, and toxicity of different types of arsenic. Though arsenic is just one of the elements Le and Weinfeld's research team are studying, it's a shocking example

of how dangerous environmental contamination can be. Arsenic occurs naturally in both the earth and in small amounts in the body. But it's also a potent toxin—a favoured means of assassination in the Middle Ages because of its lack of colour, taste and odour.

In Bangladesh, where a dense human population is coupled with high arsenic levels in well water, arsenic poisoning has become epidemic, resulting in skin lesions, cancers and death. Closer to home, there was an arsenic scare at Cold Lake, Alberta, in 1998. Arsenic levels were "slightly above the concentrations allowed by Canadian standards and three to four times above World Health Organization standards." One of the problems in that case was that personal well water doesn't need to comply with the standards.

Le's research led him to gain new insights into arsenic poisoning, arising from a chemical produced by the body as it metabolizes arsenic. This intermediate form is extremely toxic, which was a surprise to the medical and research community. Before Le's findings were published, it was thought metabolic activity in the body served to make arsenic less toxic, not more.



Stephen Osadetz

Dr. Chris Le is studying environmental contamination from a new perspective—inside the body.

Le and Weinfeld came into prominence in the field of DNA damage four years ago, when they developed an ultra-sensitive technique to measure the damage, which was 10,000 to 100,000 times more sensitive than other techniques then available.

"We're very happy about this NIH grant because, of course, to get any fund-

ing from the U.S. is rewarding, and to get funding from the NIH is exciting." ■

Stephen Osadetz is a third-year student and part-time science writer for Folio and ExpressNews. His writing position is funded by NSERC and is part of a program called SPARK, which aims to involve students in the dissemination of research. To suggest story ideas, write Stephen at sosadetz@ualberta.ca.

Grant will help researchers set to measure wetlands

Study will seek out indicators of environmental health

By Ryan Smith

Dr. Kevin Devito and Linda Halsey believe their task is huge but vitally important. The two biological scientists at the University of Alberta want to "measure everything we can think of and afford" in the patterned fens in two areas of Northeast Alberta. One will potentially be "disturbed" by development, and one is pristine. They received a \$1 million boost recently from TrueNorth Energy, a company with interests in Alberta's oilsands.

The two researchers will examine the role that climate geology and landscape position play in shaping wetlands, and how industrial land differences affect the watershed, chemistry and ecology of these features.

"We'll take a detailed look at the water-

shed, and we'll try to see and record how patterned fens form and function as they do," said Halsey, a trust employee who has worked in the field of wetlands research at the U of A for more than 12 years.

In particular, Halsey said the goal is to find bio-indicators that can be used as reliable ways to measure change in the health of wetland ecosystems. "It could be the presence of a keystone species, it could be when we see vascular plants growing faster than moss. We don't

know now, but we hope to find out."

Halsey believes this research is important for a number of reasons. "About 16

per cent of Alberta is peatlands. There are more peatlands in Canada than any other nation in the world. Managers need to understand how peatlands function before they can know how to manage them properly," Halsey said.

Also, Halsey said, peatlands sequester a huge amount of anthropogenic greenhouse gases—about four per cent of

There are more peatlands in Canada than any other nation in the world. Managers need to understand how peatlands function before they can know how to manage them properly."

— Linda Halsey

Alberta's production of it—so anything that is done in the peatlands area will affect the carbon cycle. "Ultimately, we want to know how to maintain naturally functioning fens," she added.

TrueNorth has funded the five-year research project as part of the planning for its proposed Fort Hills Oilsands project, about 90 km north of Fort McMurray.

"This research will help us to better understand the natural cycle of the wetland ecosystems in Northeastern Alberta," said David Park, president and CEO of TrueNorth Energy. "Our goal is to use the information to reduce the long-term ecological footprint of oilsands development." ■

Reward a good volunteer.

Who deserves recognition for their volunteer contributions to the community and to the University of Alberta?



THE UNIVERSITY OF ALBERTA
is accepting nominations for its
BOARD OF GOVERNORS' AWARD
OF DISTINCTION

Through this award, The Board of Governors will honour individuals or groups who, by their actions, have made exceptional contributions to link the University of Alberta with the municipal, provincial, national and/or international community.

The Nominee must

- 1) Provide volunteer service above and beyond the requirements of one's employment and which involves an outstanding contribution of personal time and effort for the benefit of others;
- 2) Promote goodwill between the University and the community;
- 3) Create positive awareness of the University within the community by bringing honour to or enhancing the reputation of the University;
- 4) Further the aims of the University in creating partnerships (social, cultural, economic).

The competition is open to groups and/or individuals in Alberta, Canada, and other countries including non-alumni members of the public, alumni of the University of Alberta, and members of the University academic and support staff. Posthumous nominations may be considered.

Further nomination and eligibility information may be obtained on the internet at www.ualberta.ca/governors/distinction.htm, or by contacting:

Office of	3-31 University Hall	Phone: 780-492-4954
The Board of	University of Alberta	Fax: 780-492-2726
Governors	Edmonton, AB T6G 2J9	

NOMINATION DEADLINE IS MAY 17, 2002

Small firms strike big deals

Univesity spinoff companies attracting attention

By Ryan Smith

Dr. Bob Foster and Dr. David Wishart maintained labs across the hallway from one another during the mid-1990s at the University of Alberta. Their lives have continued to run in a parallel pattern. Foster, the chairman of Isotechnika Inc., and Wishart, the scientific director for Chenomx Inc., have both celebrated recent announcements of separate deals with major pharmaceutical companies.

Isotechnika struck a \$215-million (U.S.) deal with the Roche Group based in Switzerland to co-develop Isotechnika's drug, ISATX247, which works to prevent transplantation rejection.

"Our exciting new partnership with Roche provides critical peer recognition of the enormous potential of ISATX247 to become a leading global immunosuppressive therapy in organ transplantation and in the treatment for auto-immune diseases," said Foster.

Chenomx formed an alliance with Pfizer Global Research and Development enabling Pfizer to use, evaluate and enhance Chenomx's new software program, Concurrent Chemical Mixture Analysis (CCMA).

CCMA combines analytical software with nuclear magnetic resonance spectroscopy data to provide one-step analysis of hundreds of compounds in a single sample of urine or blood. According to Wishart, CCMA will help Pfizer accelerate its testing process, as well as make the drug testing

process safer and reduce the need for animal testing.

Both Isotechnika and Chenomx are spin-off companies from the U of A—Isotechnika was founded in 1993, Chenomx in 2000.

These two announcements "say a lot about the innovation that is coming from the smallest faculty at the U of A—the Faculty of Pharmacy and Pharmaceutical Sciences,"

Wishart said, adding that the faculty has produced other successful spin-off companies, such as Biomira and AltaRex.

"I'm still a professor at the U of A in the Faculty of Pharmacy and Pharmaceutical Sciences, and I think it is the goal of any start-up company to find money so you can continue to do research," Wishart added. "My great satisfaction comes from having an idea in your head that emerges and becomes something with tangible benefits for others." ■

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— Dr. David Wishart

Canadian film is ready for its close-up

New book chronicles the good, the bad and the ugly

By Geoff McMaster



Paul Gross, Peter Outerbridge, Jed Rees, James Allodi in *Men With Brooms*. The movie represents a landmark for Canadian film.

This could be a banner year for Canadian cinema, thanks to the release of two very different films, says University of Alberta film critic Dr. Chris Gittings.

On the one hand there is *Men With Brooms*, a lightweight comedy that has already made more money than any other Canadian film in history (excluding, of course, the highly successful *Porky's* trilogy of the 1970s). Featuring bankable stars Leslie Neilson and Paul Gross, there is no telling what benefit this curling spoof will have on Canada's struggling film industry or on the woeful state of distribution.

"*Men with Brooms* is an interesting example of how (the distribution dilemma) for Canadian films might shift," said Gittings. "This film is highly successful, earning more than \$1 million its first weekend and was released in 207 cinemas, which is unprecedented for a Canadian film."

On the other end of the artistic spectrum is the multi-award winning *The Fast Runner*, which opened at local theatres recently. It is the first feature-length fiction film written, produced, directed, and acted by Inuit people. Never before has a first film by any Canadian director, native or not, opened to such fanfare. It may be just what it takes to prompt production companies, and federal funding agencies, to take native film more seriously. With any luck, it could also promote a more accurate understanding of life in the North.

"It will probably become a very important touchstone, because we have *Nanuk of the North* imprinted on our collective retina as an idea of what the North is and what the Inuit are," said Gittings, who has just produced a first of his own. The professor of English recently launched his book, *Canadian National Cinema*, the first comprehensive and serious critical study of Canada's film history, of Routledge's national cinema series.

The release of *The Fast Runner* (*Atanarjuat* in Inuit) is such a critical moment in that history because the birth of Canadian film is partly defined a conspicuous erasure of First Nations, says Gittings. The earliest examples of Canadian film are promotional shorts produced by the Canadian Pacific Railway to attract (mainly American) immigrants, and are therefore a revealing reflection of a "colonizing discourse."

One such film, produced in 1928, is the highly melodramatic *Unselfish Love*, in

which a young man leaves his industrial American city to win his fortune in Strathmore, Alberta, resisting the hordes of young, single women—who were apparently thick on the ground in the prairies then—only to win the hand of his true love back in the U.S.

"There is no reference to native people—it's just empty land. The implication is that they are long banished." There are also those early films in which native people are represented as passive, friendly and harmless. In either case, the CPR was "making a powerful argument that there are no real impediments to coming here."

All this is part of Gittings attempt to "catch Canadian cinema in the act of construction, to apprehend its sometimes-embarrassing aesthetic and ideological acts of self-production."

Gittings admits up front that his book is not meant to be exhaustive or definitive, nor does it attempt to find a "common thread" or national style.

"I shy away from that, it's going on that very narrow prescriptive idea of Canadian cinema, and it leaves out a lot of people who aren't doing what Atom Egoyan or David Cronenberg are doing—that kind of dark, brooding, art house film. They're doing a variety of other things."

What Gittings has tried to do is seize on certain "key historical moments shaping Canadian cinemas" to show how film constructs a spectrum of national identities, from the native question to perceptions of the "two solitudes" of English and French Canada to the role of women in nation building. He examines a number of genres, from westerns like *Grey Fox* and *Road to Saddle River*, to the 'road movie,' represented by classics such as *My American Cousin* and *Highway 61*. And citing the 1991 film *Black Robe*, he casts a critical eye at those "contemporary, politically aware filmmakers who unfortunately reinscribe the stereotype they're supposedly trying to dispatch."

Central to his argument is an analysis of the "ideological state apparatus" that has shaped the industry over the past 80 years: the National Film Board of Canada and Telefilm Canada. And on that score, the opening of *Atanarjuat* can be seen as a triumph of sorts, given the odds it was forced to overcome. Directed by Zacharias Kunuk and retelling a 500-year-old myth, the film won the *Camera d'Or* last year for

Best First Feature Film at Cannes and six Genie Awards earlier this year. All that after almost dying in mid-production.

Its history is typical of the difficulty native filmmakers face producing a non-documentary film in a language other than English, argues Gittings. Production on the film had to shut down in May of 1998 because Telefilm Canada wouldn't deliver completion funding, a symptom of what many believe is a two-tiered funding system where, as one critic puts it, "eligibility requirements are extremely low, but the amount of money is not enough to make a professional television movie."

What held *Atanarjuat* back was the lack of a distribution deal. Its producers finally managed to finish the movie, says Gittings, after receiving money from the 'English' pool of funds. "Nobody would touch it, distribution-wise, because it was in Inuktitut, and who was going to watch it?" he said. "So in a savvy move, the production company went to Europe and played on the European fascination with the 'Eskimo.'"

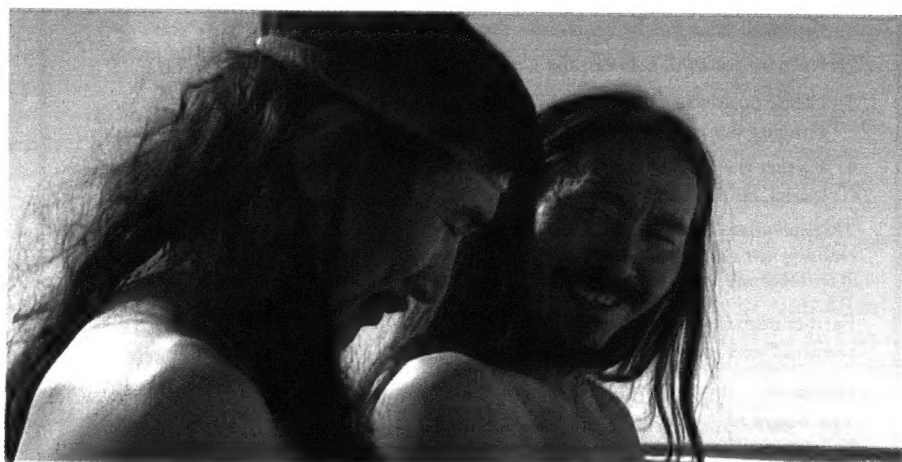
Ironically, it took this foreign recognition for Odeon Pictures to finally pick up the movie in Canada. Now it seems they can't get enough of it.

"They're going to give it a release that is unprecedented for a first-time director...It's being treated the same way, in terms of the number of screens it's going to play on, as a Cronenberg or Egoyan film."

Gittings will be watching with keen interest to see if *Men Without Brooms* and *Atanarjuat* can turn the distribution tide in this country: "What needs to happen is to have (Canadian classic films) available in video stores." ■

"Nobody would touch it, distribution-wise, because it was in Inuktitut, and who was going to watch it? So in a savvy move, the production company went to Europe and played on the European fascination with the 'Eskimo.'"

—Dr. Chris Gittings



Atanarjuat (Natar Ungalaaq) and his brother Amaqjuag (Pakkak Inukshuk) share a joke in *The Fast Runner*.

Researchers make Top 20 under 40 list

National recognition for enormous strides in research

By Richard Cairney

The Canadian Institute for Advanced Research has declared that two University of Alberta professors are among the best young researchers in the country. Dr. Janet Elliott and Dr. Liang Li have been awarded the institute's Young Explorers Prize in its Top 20 under 40 awards.

Li, a chemistry professor who came to the U of A in 1989, hopes his research could speed up the development of new drug treatments. His expertise is in analytical mass spectrometry, a technique used to analyze chemicals. He's developing methods to help researchers analyze proteins in human cells. Li lends his expertise to researchers who hope to map the human proteome—a much more detailed job than mapping the 30,000 genes that make up DNA.

"Any proteomics project requires the tools and techniques to analyze proteins expressed by cells," he said. "My goal is to develop enabling technologies to do that."

The idea is to identify proteins and modifications to proteins, and then to study proteins in diseased cells. Those differences can be used as biological markers—reference points—for researchers searching for new ways to treat diseases. Those markers can be used to help drugs target specific conditions.

"We want to look at thousands of proteins in a single cell, so we want to cast a bigger net and identify as many as we can," he said.

Li also has a research contract with the U.S. Army, which is trying to find new ways to identify bacteria quickly. Presently, the process can take hours or days because it involves growing the bacteria, says Li. But the threat of biological warfare that emerged following Sept. 11

Right: Dr. Liang Li is lending his expertise in analytical mass spectrometry to research in proteomics.

Below: Dr. Janet Elliott's first love was mathematics; she now focuses on thermodynamics.

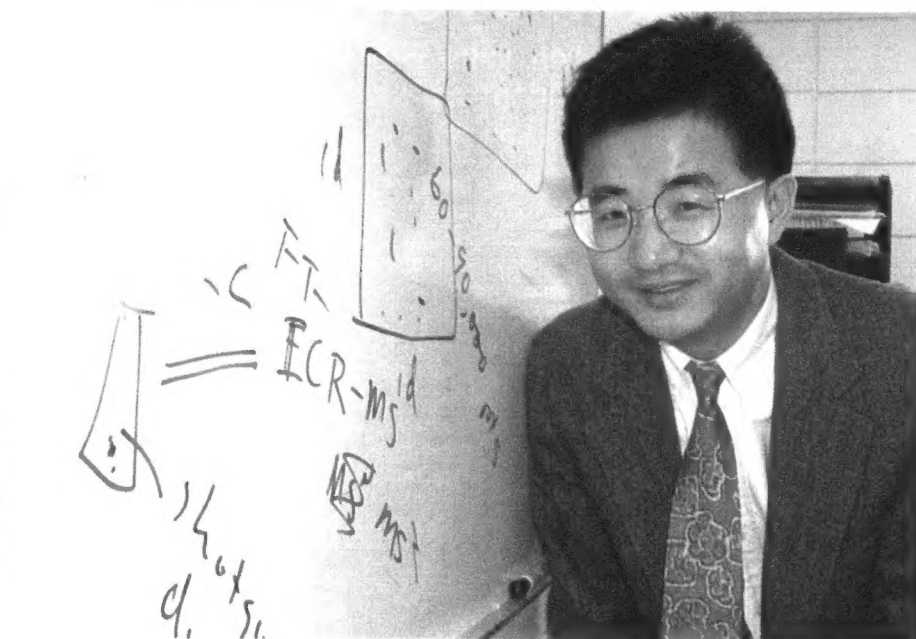


clearly illustrated the need for a quicker way to identify bacteria.

"In the U.S. and Canada they were getting reports of anthrax everywhere, and they were closing buildings down for a day or two until they could figure out what was going on," said Li.

Elliott's expertise—thermodynamics—is connected to a number of different disciplines and fields of study, from oil sands research to cryobiology—the science of preserving cells and tissues for transplantation.

"All of these fields are different, but I am doing the thermodynamics work in



them," she said. "What I do in cryobiology is to use thermodynamics to model what is going on. Right now we can freeze blood cells and stem cells and sperm, but we can't freeze a heart. We want to move to the next level and to do that you need better models of what's going on in a cell when you're cooling it."

To help oilsands researchers come up with more efficient oil extraction methods, Elliott studies emulsion droplets in microgravity environments.

"A bitumen-water system is surprisingly complex and a lot of the complexity occurs right at the bitumen-water surface. In microgravity we can make larger oil or water droplets with larger particles on the surface, so we can see them without gravity playing an increased role."

Li, 38, and Elliott, 34, were selected from more than 300 scientists by an international panel of judges. The CIAR is an independent group formed to promote excellence in Canadian research and academic work.

Elliott's research is funded by the Natural Sciences and Engineering Research Council of Canada, Syncrude Canada Ltd., the Canadian Space Agency, the Canadian Foundation for Innovation, the Province of Alberta and the University of Alberta.

Li receives funding from the Natural Sciences and Engineering Research Council of Canada, the Alberta Heritage Foundation for Medical Research, the Alberta Science Authority, the Canada Foundation for Innovation, the Protein Engineering Networks Centres of Excellence, the Alberta Cancer Board and the U.S. Army. ■

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May 2, 2002

student achievement awards

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Each of the following students received a \$1000 scholarship

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maryann baden	jesse kao	dwight schmidt
jodie bakker	kenya kondo	hannah seo
lindsay brown	joanna krupicz	jennifer shepherd
nathan brown	richard laffin	alana urbanoski
jason ding	olga markvardt	jay vanbavel
francisca gabarro	breanne mccoock	thea varvis
kenman gan	lisa mclaughlin	omair vicaruddin
anna grimsrud	tamara millard	jared wesley
yangsheng guo	shannon moore	lorelai white
joshua harison	jennifer nguyen	rebecca williams
julia hawley	neil parmar	
ann-marie heino	norma jean rodenburg	

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Maintaining our Momentum

Budget 2002-03

The University of Alberta budget is in the news but beyond the headlines, what do the numbers really mean?

Hear

Al O'Brien, Acting Vice-President (Finance & Administration)
and

Philip Stack, Director, Resource Planning

Tuesday April 23, 2002 2:00 to 3:00 p.m.

Wednesday, April 24, 2002 9:00 to 10:00 a.m.

Council Chambers, 2nd Floor, University Hall

Your opportunity to hear firsthand from those who prepare the University of Alberta budget. Each one-hour session will include a 30-minute presentation, followed by 30 minutes for question and answers.

Please RSVP linda.smith@ualberta.ca or
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O'Brien leaves VP posting for family farm

Important changes made during 18-month stay

By Richard Cairney

When Al O'Brien closes his office door April 30, he'll be looking forward to seeding a crop on the Barrhead-area farm that's been in his family for a century. Having served as deputy minister of finance for the provincial government for 30 years, then taking on an intense 18-month posting as the University of Alberta's Acting Vice President (Finance and Administration), O'Brien will finally face retirement as a country gentleman.

But first, O'Brien is making sure everything is in good order before he leaves—maybe it's the accountant's eye for detail, or it could simply be a solid work ethic. In reviewing the past 18 months—he was contracted to guide the university through two budgets—O'Brien sees some achievements the U of A can be proud of.

The portfolio's goals had been clearly laid out in a review of its operations conducted in the summer of 2000: communication was at the heart of the matter. The portfolio was asked to more clearly define the way its operations are connected to university-wide initiatives, to operate more transparently, to be more accountable to internal and external clients; and O'Brien needed to ensure the portfolio was equipped with the right tools and expertise to achieve its goals.

"One of the key concerns of the review was that the communication with our customers was not adequate and that the kind of transparency that is required wasn't there—that our customers weren't clear on what we were doing and why," O'Brien said.

Other challenges emerged. O'Brien says turn-over of administrative staff is an area of concern.

"That has been a continuing phenomena throughout the administrative portfolios in the university. I guess it's a part of the reality of the environment we're working in but it means we have less institutional memory than is desirable," he said. "That doesn't make it any easier to have good communications or to build relationships with stakeholders."

O'Brien also found that documentation of some university policies and practices weren't being maintained. The U of A uses a document called Manual of Administrative Policies, Procedures and Services (MAPPS), but it hasn't been updated for years, O'Brien said. A new on-line version, called APPOL (Administrative Policies and Procedures On-Line) is currently being developed and a "major initiative" is underway to document and keep those policies and practices up to date.

"It's imperative that we have this done," he said. "Without it you have confusion, differences of opinion on what actual policy is and room for friction."

Another challenge emerged with the global and provincial economic downturn. "Clearly, the North American economy had been slowing down, but the hit in resource prices in the fall of 2001 was hard to foresee. It has become a real concern for us."

Asked what some of his most significant successes are, O'Brien says that judgement "is undoubtedly for others to make."

But he does cite some initiatives, such as the new four-year planning processes, particularly in capital planning, as an accomplishment he's proud of. He's also

pleased with progress of the U of A's Long Range Development Plan, which is up for approval from the Board of Governors in May. The decision to create a new vice presidency to oversee facilities and operations was "an important move" that recognizes infrastructure challenges the university faces.

A good deal of progress has been made on one of the most controversial matters on campus, the Administrative Information Systems. A new planning and priorities process has been established and the university will continue to see benefits that have been promised for years, such as new services for students and better financial reporting for researchers.

Administration of benefits and staff and student payments have been reorganized as well, allowing more focussed efforts to be made in both areas.

So what's left? O'Brien laughs at the question, knowing there's always more to be done. The university is reviewing the way research funds are managed and administered; it is developing university-wide risk-management plans; and it needs to do more work in human resources planning, professional development and administrative renewal.

"We do a very good job with academic staff in terms of faculty renewal but on the administrative side there has been much less," he said.

The biggest challenge the U of A faces, he adds, is infrastructure. An ambitious four-year capital plan is calling for expansion, with more than \$450 million in construction. That growth is important to maintaining momentum at the U of A, he says.

"The number one challenge is infrastructure," he said. "That is our biggest constraint. If we don't get additional research facilities we won't be able to attract these bright young people."

U of A President Dr. Rod Fraser obviously felt the university had done a good job of recruitment in hiring O'Brien, if even for a short time. During a farewell gathering held recently, Fraser thanked O'Brien for his expertise.

"It has been a real comfort to have someone with your experience and knowledge of how to get things done," Fraser said. "You have been someone willing to come in and make major changes."

Making those changes, Fraser noted, wasn't always easy. "You brought with you that clear list of what was required: vision, fair mindedness, appreciation of human resources, commitment, communication and courage."

And so it appears the U of A did well in recruiting its new Vice President (Finance and Administration). Phyllis Clark, who most recently served as vice president of finance at York University, moves into O'Brien's office in May.

"I wouldn't be so presumptuous as to offer her any advice," said O'Brien. But he did tell the U of A hiring committee what qualities to look for in applicants: "I told them they'd need someone who, in addition to human resources and financial management skills, had a commitment to openness and transparency and a commitment to communication—you can never overestimate the importance of communication," he said. "And I told them they'd need someone with the courage to address all of the issues." ■

notices

Please send notices attention: Folio, 6th floor General Services Building, University of Alberta, T6G 2H1 or e-mail publicaffairs@ualberta.ca. Notices should be received by 3 p.m. one week prior to publication.

JALISCO PARTNERSHIP DEVELOPMENT AWARD

The Jalisco Partnership Development Award was established to support continuing relationships with our priority partnerships in our sister State of Jalisco, Mexico. These are: the Universidad Autonoma de Guadalajara, Universidad de Guadalajara, Instituto Tecnológico y de Estudios Superiores de Monterrey (ITESM-Guadalajara campus) and CONAFOR (National Forestry Agency). The award supports innovative practices that strengthen these priority partnerships by providing start-up funds for new initiatives such as student and faculty exchange, research and co-operative teaching.

The fund allocates a maximum of \$10,000 per year. Single or multiple-year proposals are acceptable, and all reasonable expenses can be considered for funding provided they are not supported by any other source. The competition is open to University of Alberta Faculty and Staff.

For more information, including application forms and terms of reference, please contact University of Alberta International, 1204 College Plaza, Edmonton.

Tel: 492-5840/e-mail: rae.mcdonald@ualberta.ca
Application deadline: May 1, 2002

ads

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The University of Alberta's new

EMERGENCY MASTER PLAN

"The University Emergency Master Plan is developed to protect its employees, property, environment, and the general public from any harm that may occur as a result of its operations, acts of nature, municipal accidents, acts of malfeasance, or the distribution and end use of its products and technologies."

The University of Alberta's Emergency Master Plan spells out the roles and responsibilities of emergency responders across campus. In the event of an emergency, these responders — including representatives of Environmental Health and Safety, Campus Security Services, Facilities and Utilities, Finance and Risk Management, Health Sciences (Academic) and Public Affairs — are trained to minimize the imminent danger, communicate with all affected members of the University community, advise, update and take direction from University Administration, work with media, and assist with long-term effects and recovery.

Emergency responders work closely with City emergency response officials as well as all affected internal and external agencies during and after an event.

The Emergency Master Plan was written over a 24-month period by a Task Group commissioned by the Vice-President (Finance and Administration), and key staff from across the University have received training on the Plan's function. The Plan is managed by the University's Director, Office of Environmental Health and Safety.

Now, make a plan for your unit

Each academic and central unit now has the opportunity to draft/update its own Emergency Action Plan. Using a simple planning template, each unit's plan identifies unique potential hazards while ensuring overall compatibility with the University's new Master Plan.

Sign up for an on-campus training session April 30

Aimed at Faculty/unit emergency response designates, the one-day session addresses the mechanics of the University's Master Plan and guides participants through the completion of a Unit Plan.

If you are interested in attending one of the sessions — and have not received an invitation from the Environmental Health and Safety Office — please call **21810** for more information.

Find out more about the University's new Emergency Master Plan at www.ualberta.ca/emergency

positions

The records arising from this competition will be managed in accordance with provisions of the Alberta Freedom of Information and Protection of Privacy Act (FOIPPA). The University of Alberta hires on the basis of merit. We are committed to the principle of equity of employment. We welcome diversity and encourage applications from all qualified women and men, including persons with disabilities, members of visible minorities, and Aboriginal persons.

INTERNATIONAL RELATIONS OFFICER (LATIN AMERICA) UNIVERSITY OF ALBERTA INTERNATIONAL

University of Alberta International (UAI) plays a pivotal role in the international activities of the University of Alberta. UAI works with students and faculties in pursuing innovative learning, research and collaborative opportunities which include assisting students in meeting their international goals, building academic partnerships and engaging in programs with industries, governments and funding agencies.

An exciting opportunity exists for a highly motivated and enthusiastic individual to join our team of professionals in the position of International Relations Officer (Latin America).

Reporting to the director, International Relations, the International Relations Officer (IRO) maintains relations and contacts key to furthering the strategic objectives of the University of Alberta in Latin America. The IRO (Latin America) is one of three IROs working with UAI, each representing various regions of the world.

Responsibilities include:

Co-ordinating official visits and missions to and from Latin America, including communicating with senior administration and faculty representatives about mission/visit objectives, preparing itineraries and briefing materials, booking travel arrangements, and completing follow-up.

Managing networks of contacts related to the university's long-term partnerships and goals for the region.

Providing advice and contact information to faculties and administrative units within the university to assist in preparing proposals for funding and/or developing formal partnership agreements in the region.

Researching regional issues related to higher education and monitoring the political and economic activities of the region as they may effect U of A interests and/or objectives.

Working with the director, International Relations, the Associate Vice President (International), and other senior administrators to co-ordinate the university's strategic goals in the region.

Applicants must have post-secondary education supplemented with two to three years of related practical experience. The successful candidate will require excellent communication skills with the ability to work in cross-cultural settings. Fluency in Spanish is required. Language capability in Portuguese is desirable. Strong research, analytical and writing skills are necessary. Experience in the co-ordination of overseas missions and ability to handle complex logistical planning preferred. Computer literacy in word processing and databases a must. Travel will be required. Candidates must also have a valid driver's license.

This full-time Administrative/Professional Officer position has a salary range of \$37,000 to \$60,000 commensurate with qualifications and experience. Appointment will be for a one-year term with extension subject to performance and funding availability.

Letters of interest, including a résumé and names of three professional references should be submitted no later than Friday, April 26, 2002 to Marjorie Cayford, Executive Officer, University of Alberta International, 1204 College Plaza, 8215 - 112 Street, Edmonton, Alberta, T6G 2C8. Fax: 780-492-1488. E-mail: marj.cayford@ualberta.ca.

FACULTY LECTURERS DEPARTMENT OF COMPUTING SCIENCE

The Department of Computing Science at the University of Alberta has openings for one to two faculty lecturer positions, commencing July 1, 2002. These are full-time, 12-month appointments with possibility for renewal, given satisfactory performance and continued need. Faculty lecturers are academic staff who teach seven single-semester courses; one of those is typically covered during intersession (spring/summer). Normal duties include lecture preparation and presentation, exam marking, and holding office hours for student interaction. At present, we are looking for individuals who can cover a range of 200 and 300 level courses in both theory and practice, particularly CMPUT 201, 204, 272, 301 and 379. Descriptions for these courses can be found at <http://www.cs.ualberta.ca/~courses>. Applicants with prior experience in teaching at the post-secondary level and an advanced degree in computing science are preferred.

Résumés and covering material can be sent electronically as PDF or MS word .doc attachments to Dr. Renee Elio, Associate Chair, Department of Computing Science (ree@cs.ualberta.ca). Applications will be accepted until May 3, 2002, for July 1, 2002 appointments. The current salary range for faculty lecturers in Science is \$50,090 - \$64,238. Salaries are currently under negotiation.

PUBLIC SERVICES LIBRARIAN SCIENCE AND TECHNOLOGY LIBRARY UNIVERSITY OF ALBERTA LIBRARIES

The University of Alberta Libraries, with a long

tradition of service excellence to the university and its communities, is seeking a dynamic individual to provide reference, consulting and teaching services and to liaise with teaching faculty and students in assigned areas of responsibility. Working within a team environment, the successful candidate will actively participate in development of access to new electronic resources and their implementation, including use of applications and knowledge of trends in Web technologies within a networked research environment. The University of Alberta Library is Canada's second largest research library, with a collection exceeding five million volumes. The library has a unique relationship with the broader community through NEOS, a central Alberta consortium consisting of 19 government, hospital, college and university libraries and through The University of Alberta Library. The library has a partnership with OCLC for cataloguing of materials.

The Science and Technology Library, with associated branches and specialized collections of maps and circumpolar materials, is one of six major subject libraries within the Library system. Visit our Web site at <http://www.library.ualberta.ca>.

Qualifications will include an MLS degree from an accredited library school as well as relevant experience. A background or experience in the areas of science or technology would be an asset. Applicants must possess a strong service orientation, excellent instructional and communication skills, and a commitment to co-operative solutions and superior information management skills.

This tenure-track position is classified at the Librarian I level with a current salary range of \$38,332-\$70,320. Librarians at the University of Alberta have academic status and participate in a generous benefits program. Closing date for the position is April 30, 2002. To apply, please mail, fax or e-mail your résumé and the names of three references to:

Karen Adams, Director of Library Services and Information Resources
Cameron Library, University of Alberta
Edmonton, Alberta T6G 2J8
fax: (780) 492-8302
e-mail: karen.adams@ualberta.ca

The University of Alberta has a clear vision—to be indisputably recognized as one of Canada's finest universities. The university's vision of the optimum environment for learning and research demands major investment in information technology services and infrastructure, innovative and resourceful staff and commitment to a dynamic process of change. Further information is available on the university's Web site at: <http://www.ualberta.ca>.

MANAGER, FINANCE AND HUMAN RESOURCE, ANALYTICS AND REPORTING

Reporting to the director of Resource Planning, the manager is responsible for developing, implementing and supporting highly flexible and robust finance and human resource analytical and reporting capabilities for the university community. Through leadership and planning, the manager will ensure that analytical and reporting capabilities provided to the university meet the needs for academic and support units to undertake comprehensive analysis for integrated planning purposes, track and report on their progress relative to their approved business plan, report against a unit's key performance measures, monitor their actual financial performance relative to approved budget, and effectively forecast key budget and planning indicators. These activities will enhance the university's integrated planning capabilities, strategic decision-making and allocation of limited resources.

Responsibilities and Activities:
The manager has key responsibilities and accountabilities in the areas of:

- Leadership and planning
- Systems development
- Data management
- Reporting and analysis
- Communication and education
- Process improvement and performance management

Education:

The candidate must possess a professional accounting designation (CA, CMA, CGA) and a university business degree with a major in management information systems coupled with a minimum of five years related experience in a large organization.

This position is a full-time continuing position within the Administrative Professional Officer segment of the AASUA collective agreement and includes a comprehensive benefit package. The salary range is \$50,086 - \$79,304 commensurate with qualifications and experience.

Please send in confidence a résumé by April 26, 2002 to:

Philip Stack, Director, Resource Planning
1-11 University Hall
Edmonton, Alberta T6G 2J9

talks & events

Submit talks and events to Cora Doucette by 9 a.m. one week prior to publication. **Folio Talks and Events listings will no longer accept submissions via fax, mail, e-mail or phone. Please enter events you'd like to appear in Folio and on ExpressNews at: <http://www.expressnews.ualberta.ca/ualberta/L2.cfm?c=10>**

APR 01 - OCT 31 2002

Standard First Aid/Heartsaver Courses.
The Office of Environmental Health and Safety has arranged for Standard First Aid/Heartsaver courses to be held on campus once again this year. The training is comprised of two full-day sessions (8:00 a.m. to 4:00 p.m.) with morning, lunch and afternoon breaks. The cost is \$80.00 per person. The first course will be held in early April and the last at the end of October. Registration is limited due to classroom size. For further information and registration forms please call Cindy Ferris at 492-1810 or e-mail cindy.ferris@ualberta.ca or visit the home page at <http://www.ehs.ualberta.ca/training.htm#CPR>

APR 15 - 24 2002

Extension Centre Gallery HandScapes. An Exhibition of Original Watercolours by Karen Ferrari, a final visual presentation for Fine Arts Certificate. Gallery Hours: Mon - Thur, 8:30 a.m. - 8 p.m. Fri., 8:30 a.m. - 4:30 p.m. Sat., 9-noon. Location: Extension Centre Gallery, 2nd Floor, University Extension Centre.

APR 19 2002

Career and Placement Services (CaPS).
Workshop "Establishing a Career Outside of Academia" - new for graduate students! Workshop fees range from just \$10 to \$20. Pre-register at CaPS, 2-100 Students' Union Building (SUB). For a complete listing of upcoming events, check out Web site at www.ualberta.ca/caps. Room 4-02 Students' Union Building. From noon to 2:00 p.m.

APR 19 2002

Department of Computing Science
Artificial Intelligence Seminar Series. Dr Dan Roth from the Department of Computer Science and The Beckman Institute of the University of Illinois at Urbana-Champaign will speak on: "Relational Learning via Propositional Algorithms." From 12 noon to 1:00 pm in CSC 3-33 (Computing Science Centre).

APR 19 2002

John Dossetor Health Ethics Centre Health Ethics Seminar. "Capacity Assessment: Philosophical Reflections on an Inexact Science." Presenters: Ingra Schellenberg, Clinical Ethics Resident, Royal Alexandra Hospital, Ph.D.(Candidate), University of North Carolina at Chapel Hill and Gary Goldsand, Clinical Ethicist, Royal Alexandra Hospital, Ph.D.(Candidate), University of Toronto. From 12:00 noon to 1:00 p.m. Room 207, Heritage Medical Research Centre.

APR 19 2002

Department of Biological Sciences.
Genetics 605 Seminar Series. Molecular Biology and Genetics Research Group. Dr. Johannes Herrmann, Adolf-Butenandt Institute for Physiological Chemistry, Ludwig Maximilians University of Munich, Germany, presents: "Sorting in and out mitochondrial inner membrane proteins: OXA translocase of mitochondria." 4:00 p.m. M-149, Biological Sciences Building

APR 21 2002

Department of Music. The University of Alberta Madrigal Singers Pre-Tour Concert
Ardelle Ries, Conductor with special guests Happnin: The University of Alberta Jazz Choir. Liana Bob, Conductor. Music from and inspired by Shakespeare's time. 8:00 p.m.

APR 22 2002

Department of Biological Sciences Event sponsored by Alberta Heritage Foundation for Medical Research. Department of Biological Sciences. Molecular Biology and Genetics Research Group (part of the Genetics 605 seminar series). Dr. Martin Tenniswood, Department of Biological Sciences, University of Notre Dame, South Bend, Indiana USA, presents "Alterations in the biogenesis of clusterin. An extracellular and nuclear chaperone, during cell death of hormone dependent cancers." Sponsored by AHFMR, hosted by Dr. Paul Wong. From 4:00 to 5:00 p.m. in Room V 106, Physics V-Wing.

APR 22 2002

Faculty of Physical Education and Recreation
Edward McAuley, Ph. D., Professor and Associate Department Head, University of Illinois, Department of Kinesiology, presents "Physical Activity, Aging and Control." Location: P415 Van Vliet Centre. From 3:15 to 4:30 p.m. His visit to the U of A is funded by an AHFMR Visiting Speaker Grant.

APR 24 2002

Lunch & Learn Event sponsored by Health Promotion & WorkLife Services. "How High is your EQ?" From 12:00 p.m. to 1:00 p.m. Presenter: Mr. Landor Liddell, Cornerstone Counselling. Intelligence, schooling and experience may help you land a job or get you promoted in your current one but, according to some psychologists, you won't taste success unless you have a good EQ - emotional quotient. To truly understand your EQ, you have to evaluate your own behavior to find how you are doing. If you would like to learn more about the skills needed to be truly effective - how to communicate, deal with conflict, manage stress, and understand people whose personalities are very different from yours, plan on attending this lunch & learn session. Location: Heritage Lounge, Athabasca Hall.

APR 25 2002

Department of Secondary Education
Curriculum and Pedagogy Institute and Centre for Mathematics, Science and Technology Education of the Department of Secondary Education are pleased to announce a presentation by Dr. William E. Rees, Professor from University of British Columbia. The title of his presentation is "Globalization and Trade: The Protesters have a Point". All are welcome. From 3:30 p.m. to 5:00 p.m. Room 122, Education South.

APR 25 2002

Department of Physics Colloquium
Dr. Eric Braaten, Department of Physics, The Ohio State

University, presents "Effective Theories from QED to Cold Atoms." Physics Bldg. V-129, V-wing. 3:15 p.m.

APR 25 - 26 2002

Human Rights as Global Security: Future Directions A symposium to commemorate the 20th anniversary of the Canadian Charter of Rights and Freedoms. TELUS Centre, 87 Avenue & 111 Street, University of Alberta.
Speakers: Warren Allmand, Kathleen Mahoney, Ian Greene, Sheila Greckol, Shelagh Day, Claude Couture, Sharon McIvor, William Rees, Linda Bull, Jaggi Singh, Bob Wasylshen, Rowena Xiaoqing He, and Tsvi Kahana. For more information on the symposium, or to register, log on to our Web site: <http://www.john-humphreycentre.org> or call Julie at (780) 453-2638.

APR 26 2002

Faculty of Physical Education and Recreation
Event sponsored by Faculty of Physical Education and Recreation - Research. "Essentials of Grounded Theory: A Basic Overview of Techniques and Uses" by Juliet Corbin.
Location: P -415 Van Vliet Centre. 9:00 a.m.

APR 26 2002

Accounting & MIS Visiting Speaker Workshop.
Professor Erik Rolland, University of California, will be presenting his paper titled, "Bertrand Competition and Internet Pricing: Rethinking the E-Commerce Business Model." Location: Room 4-16 Business Building. 2:00 to 3:30 p.m.

APR 26 2002

Department of Biological Sciences
Genetics 605 Seminar Series. Molecular Biology and Genetics Research Group. Dr. Charles Boone, Banting and Best Department of Medical Research, University of Toronto, presents "Peptide recognition module proteomics and automation of yeast genetics." 4:00 p.m. M-149, Biological Sciences Building.

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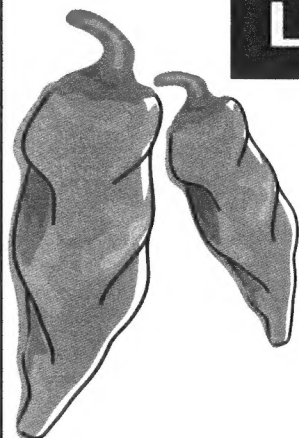
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APR 26 2002

Department of Computing Science IEEE

Distinguished Visitor, Dr Susan Horwitz of the Computer Sciences Department at the University of Wisconsin - Madison will speak on: "The Use of Program Dependence Graphs in Software Engineering." Starting at 2:00 pm in CSC 3-33 (Computing Science Centre).

APR 26 2002

Department of Physiology Speaker: Dr. E.

Daniel, Department of Pharmacology, U of A, presents: Caveolae as signaling centers in smooth muscle. 3:00 p.m. in 207 Heritage Medical Research Centre.

APR 26 2002

Faculty of Physical Education and

Recreation Event sponsored by Faculty of Physical Education and Recreation - Research, Dr. Maureen R. Weiss, professor of sport and exercise psychology and program director of Kinesiology in the Department of Human Services and Curry School of Education at the University of Virginia, presents "Peer Relationships, Social Development and Sport Participation: Revisiting the Past and Envisioning the Future." Location: P-415 Van Vliet Centre. 11:00 a.m. to noon.

APR 26 2002

Department of Music Salute to Malcolm

Forsyth Celebration Dinner with special guest artists. Faculty Club, University of Alberta. Admission: \$55 (including a donation of \$25 to the Canadian Music Centre). 6:00 p.m.

APR 26 - MAY 03 2002

Citizen of the World: John Peters Humphrey and the Universal Declaration of Human Rights. Exhibit Viewing Times: April 26 - 28: Fri., 8:30 a.m. - 1:00 p.m., Sat.: 8:30a.m. - 4:30 p.m., Sun. 8:30a.m. - 1:00 p.m. April 29 - May 3: Monday - Friday 8:30 a.m. - 4:30 p.m. TELUS Centre, 87th Avenue - 111 Street, University of Alberta.

APR 27 2002

Department of Music Maid in Alberta.

Sylvia Shadick Taylor, piano. Featuring works by Forsyth, Sastok, Sasonkin, Nicholson (world premiere), Eagle, Fisher and Bashaw. Edmonton Composers' Concert Society "New Music Alberta" concert series. 8:00 p.m.

APR 29 - MAY 03 2002

University Teaching Services Spring

Program: Elements of a Course. University Teaching Services (UTS) is offering a one-week Spring Program that focuses on Elements of a Course. This week of professional development includes 10 workshops that are practical and relevant to those who teach, interactive, and free of charge. For more information call 492-3208 or visit our web site at www.ualberta.ca/~uts

APR 29 - MAY 08 2002

Faculty of Extension Nature of Love, an exhibition

by Amanda Sinclair, for the final visual presentation for the Fine Arts Certificate. Opening reception: April 26, 6-8 p.m. Gallery Hours: April 29 and 30, 8:30 a.m. - 8 p.m. May 1-8, 8 a.m. - 4 p.m., Mon thru Fri. Location: Extension Centre Gallery, 2nd floor, University Extension Centre.

APR 30 2002

Lunch & Learn Event sponsored by Health

Promotion & WorkLife Services. "Diabetes 101." From 12:00 p.m. to 1:00 p.m. Presenter: Sarah Lord, Canadian Diabetes Association. Join us for this lunch & learn presentation to find out exactly what diabetes is, the types of diabetes an individual can have, along with the signs and symptoms, risk factors and treatment and prevention available for all types of diabetes. Location: Heritage Lounge, Athabasca Hall.

MAY 02 2002

Spinoff Company Celebration Event sponsored

by Industry Liaison Office, Office of VP (Research): Spinoff Company Celebration. The Industry Liaison Office (ILO) is pleased to celebrate the spinoff companies formed as a result of university research and innovation. These spinoff companies represent our next-generation knowledge economy — the fastest-growing sectors for economic growth in the world. On May 2, between 3 p.m. and 4:30 p.m., participants will: 1) recognize and profile some of the cutting-edge ventures built on University innovation; 2) announce the most recently formed University spinoff companies; 3) unveil two reports on the beneficial impacts of spinoffs; and 4) connect researchers/entrepreneurs to the services and support agencies that assist start-ups. To attend this free event at the University of Alberta Telus Centre, registration is required. Please provide your contact information and indicate your desire to "Register for the Spinoff Celebration" and mail to: ilo@ualberta.ca or

call Jason Darrah at 492-3129. Space is limited! Location: U of A Telus Centre.

MAY 02 2002

Department of Medicine 2002 Research Day

and E. Garner King Lecture. The Department of Medicine will hold the 2002 Research Day (Residents, Graduate Students and Post Doctoral Fellows) on Thursday, May 2, 2002 in Classroom D (2F1.04 WMC). Special guest adjudicator will be Dr. Didier Raoult, a professor at the Marseille School of Medicine. Dr. Raoult will also present the Ninth Annual E. Garner King Memorial Lecture at 5:00 p.m. in Classroom D that will be followed by a reception in the Upper Foyer of Bernard Snell Hall. Research Day oral presentations will take place from 8:00 to 4:00. Posters will be on display in the Lower Level Foyer of Bernard Snell Hall with adjudication taking place from 11:00 to 1:00 p.m. Lunch will be available and all are welcome to attend. For further information, please call 407-3131.

MAY 03 - 05 2002

Social Justice Institute St. Joseph's College, in

collaboration with the Social Justice Commission of the Archdiocese of Edmonton, and the Canadian Catholic Organization for Development and Peace, has organized a Social Justice Institute to be held at the College May 3-5 on the theme "Living Faithfully in a Troubled World." The Institute, consisting of several keynote talks and 5 workshops, offers an opportunity to reflect upon the Scripture's call to justice and ways for us to respond. Registration and other details can be found in the brochure available from St. Joseph's College, 492-7681. Location: St. Joseph's College, University of Alberta.

MAY 03 2002

Department of Biological Sciences

Genetics 605 Seminar Series. Molecular Biology and Genetics Research Group. Dr. Robert Duronio, University of North Carolina, Lineberger Cancer Institute, USA, speaking on "Gene expression and cell cycle control during Drosophila development." M-149, Biological Sciences Building, 4:00 p.m.

MAY 05 2002

A Stitch in Time: Quilt Lecture and Strawberry

Tea Enjoy a special presentation on quilting, followed by a strawberry tea, a chance to see the quilt exhibit in the Human Ecology Building and a special behind-the-scenes look at the Clothing and Textiles Collection. Tickets are \$12. For more information call Museums and Collections Services at 492-5834. Sponsored by the Department of Human Ecology, the Friends of the University of Alberta Museums and Museums and Collections Services. Happens at 1:00 to 3:00 p.m. in Room E-120 Physical Education.

MAY 05 2002

Traditional Tea Ceremonies Tea ceremonies

will be hosted in the Ozawa Pavilion, which is an authentic Japanese Tea House, set in the tranquil Kurimoto Japanese Garden. Sittings will be held at 1:30, 2:15, and 3:00. Maximum of 4 people for the 1:30 and 2:15 sitting and for the 3:00 sitting a maximum of 20 people. Experience this Japanese custom in a unique setting! Cost is \$5.00 per person. General admission rates also apply. Contact Visitor Services, Devonian Botanic Garden, (780) 987-3054 for further information.



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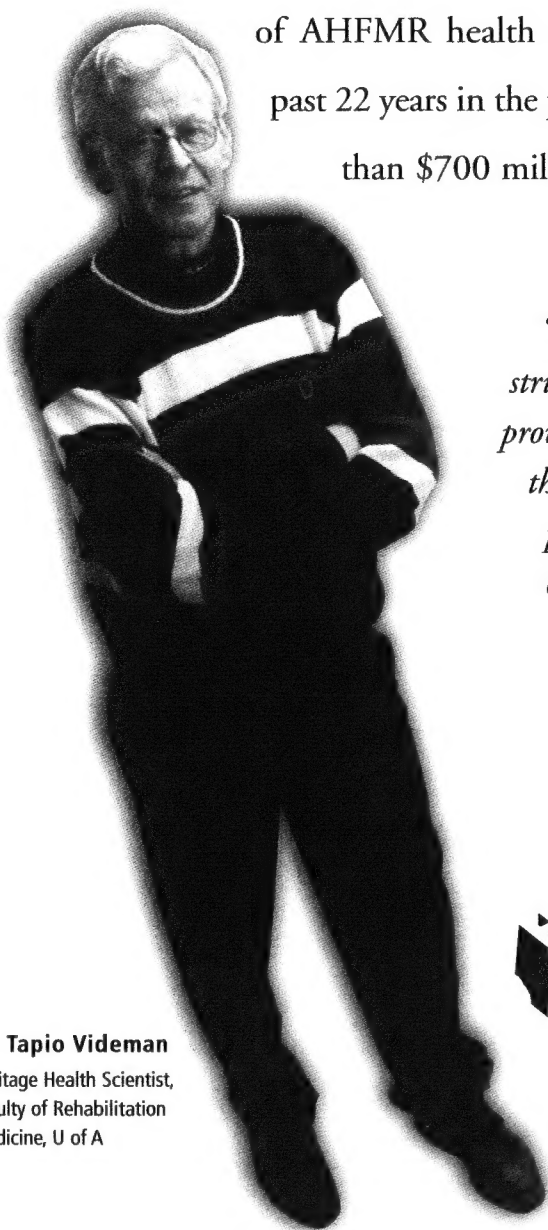
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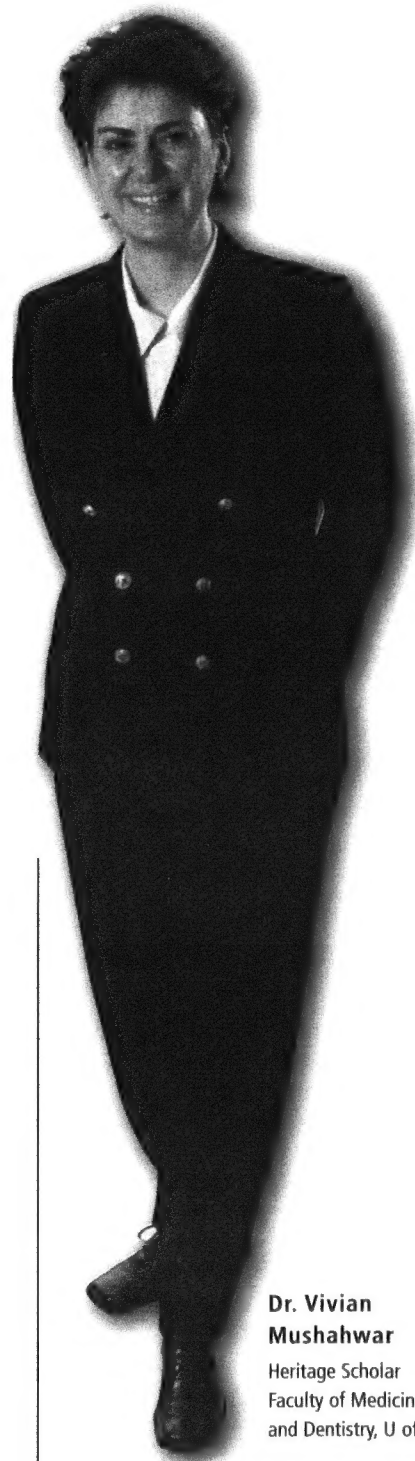
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Quarter Century of Excellence

U of A institute celebrates and studies all things Ukrainian

by Jacqueline Janelle

How do you set up an institute to examine, study and preserve a culture that half the world vehemently argues doesn't even exist? With tenacity and skill.

On April 14, a shining example of such determination was celebrated at the Faculty Club. Federal and provincial dignitaries, academics, religious leaders and the Ukrainian Canadian community turned out in full force for a gala evening to celebrate a quarter-century of incredible accomplishments by the Canadian Institute for Ukrainian Studies (CIUS).

Twenty-five years ago Ukrainian culture was under siege: in Eastern Europe the occupying Soviet Union was actively suppressing any signs of Ukrainian individuality; in Western academic circles, attitudes towards the protection of this distinct culture ranged from indifference to downright hostility. As a consequence, nationalist pride eroded to the point that second and third generation Ukrainian-Canadians were only too happy to sweep their history under the rug.

Dr. Manoly Lupul saw things differently; he was a professor of the history of Canadian education at the University of Alberta and a strong supporter of Canadian principles of multi-culturalism. Concerned that his heritage faced extinction by apathy, Lupul became determined to stem the loss.

"He felt the Ukrainian community and academia needed more information about Ukraine, particularly since Ukrainian heritage was being persecuted by the Soviet Union at that time," said Dr. Zenon Kohut, director of the Canadian Institute of Ukrainian Studies.

Professor Lupul and a group of fellow academics from across the country doggedly set about securing funds, endowments and academic support for an institute dedicated to protecting the Ukrainian identity. But the CIUS did much more, developing top-notch research in Ukrainian language, history, and culture. Over the last 25 years the CIUS has become a beacon for Ukrainian scholars around the world.

The institute initially played an important role as a cultural surrogate for politically oppressed Ukrainian nationals, preserving a broad range of cultural and historical information and excelling in research forbidden in the homeland. With the collapse of the USSR and the fledgling independence of a Ukrainian state, the role of the CIUS has blossomed into that of mentor both in the Ukraine and in North America.

"The fundamental mis-

sion of the institute has remained the same, but what changed were the priorities," said Dr. Kohut. "Suddenly there was burgeoning interest in Ukrainian culture among Western scholars; there was a greater integration of Ukrainian culture into the mainstream."

Expert researchers at the CIUS have been called upon to help fill the void in other universities' academic calendars. The extensive and highly regarded inventory of institute publications, including the much heralded Encyclopedia of Ukraine, has become a hot commodity in academic circles. "Institutions like Columbia, Yale, and Stanford are looking to us to help establish programs at their university," Dr. Kohut said.

To ensure that Ukraine benefits from the current global enthusiasm for its culture, the institute has played a pivotal role in rebuilding academics in the newly independ-

ent state. After opening a CIUS office in Kyiv, the institute began publishing in Ukraine, organizing conferences, guiding Ukrainian institutions, and most importantly offering grants to scholars. "With the collapse of the Ukrainian economic system, young academics were being forced to abandon their profession," said Dr. Kohut. "Small grants go a long way."

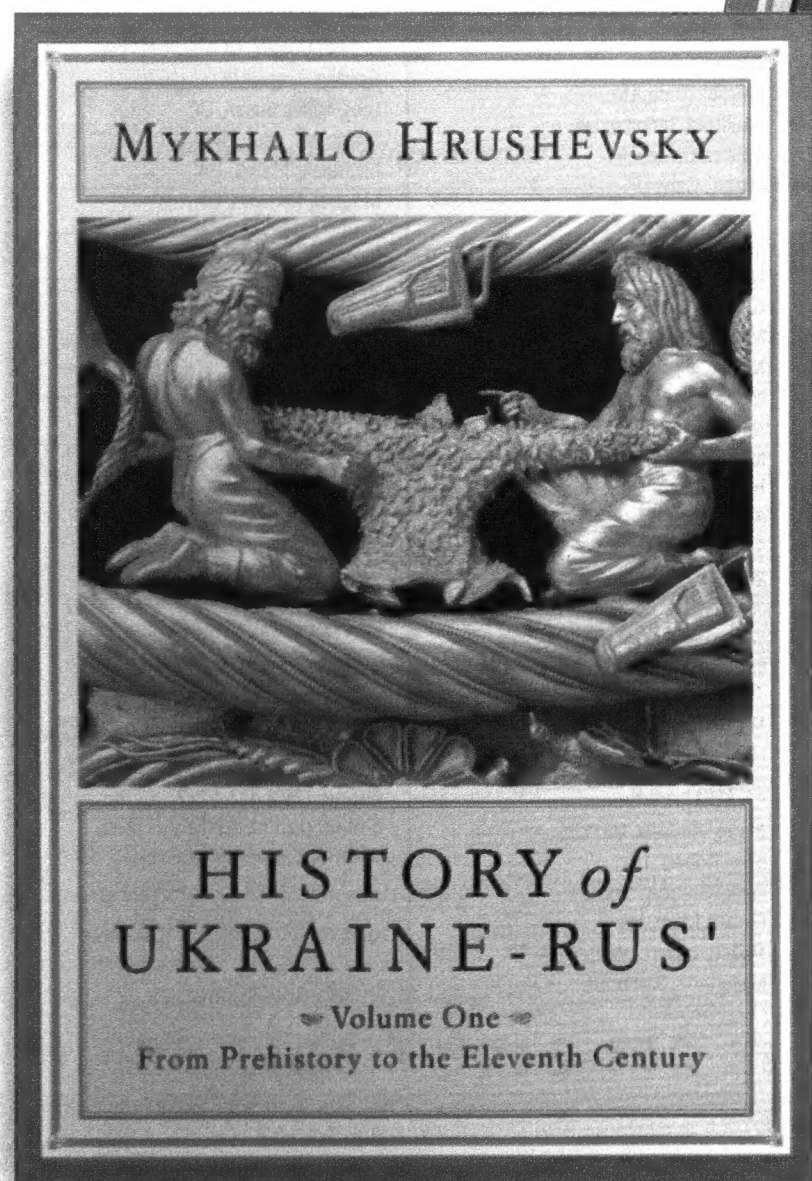
The CIUS is most eager to encourage the development of new academics from the Ukraine, not only to enhance the Ukraine's global presence, but also to increase the number of qualified academics, now in short supply.

Currently the institute is making a push to enter the digital age, but skilled academics are needed to edit and interpret the information. "There are very few of these people around, because it takes years to train them," said Kohut. "We want to get things on the Internet because it's the first stop for so many people." Simply getting the seminal Encyclopedia of the Ukraine online and ready for regular updates will be a mammoth undertaking.

Kohut also wants to post many simpler but equally important publications on the Web to actively encourage the development of Ukrainian studies enthusiasts. Since 1979, the CIUS' Ukrainian Language Education Centre (formerly the Ukrainian Language Resource Centre) has been responsible for developing and producing learning material for Ukrainian bilingual programs available across the prairies, and Kohut would like to see these materials made more widely available. Finding the money to support these projects is, of course, a perennial problem for the institution. "Funding cuts have really hurt us. In the decade I have been director we've been cut by almost a third."

Despite financial setbacks Kohut remains optimistic about finding the resources to continue to support what is quickly becoming a national treasure on two continents. ■

Formed 25 years ago, the Canadian Institute for Ukrainian Studies has become a prolific publisher and earned an international reputation for top-notch research in Ukrainian language culture and history.



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